



**PASARGAD ENERGY
DEVELOPMENT CO.**

PEDC
2021

PROFILE 2021

PEDC

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PASARGAD ENERGY
DEVELOPMENT CO.

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- 09 Pasargad Energy Development Company, Pioneer In Developing Energy Startup Ecosystem
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KHOY
Khoy Combined Cycle Power Plant



URMIA
Urmia Combined Cycle Power Plant



ILAM PROVINCE
Drilling Technical services



**KHOUZESTAN, LORESTAN, ILAM
KERMANSHAH & IRAQ**
Iranian Gas Trunk line (IGAT6)



AHVAZ
Sepehr & Jufair Oil Fields Development
Siyahmakan Oil Fields Development
- EPC/EPD integrated Contract



KHUZESTAN PROVINCE
Drilling Technical services



MAHSHAHR
Petrochemical Complex (Metanol & Acrylate Chain)



**BUSHEHR,
DEVELOPMENT OF SIAHMAKAN FIELD**
Dig four new wells
Providing drilling technical services
Construction of separation unit and pressure boost
Execution of flow pipelines
Execution of drilling location



SIRAF
Siraf Gas Condensate Refinery



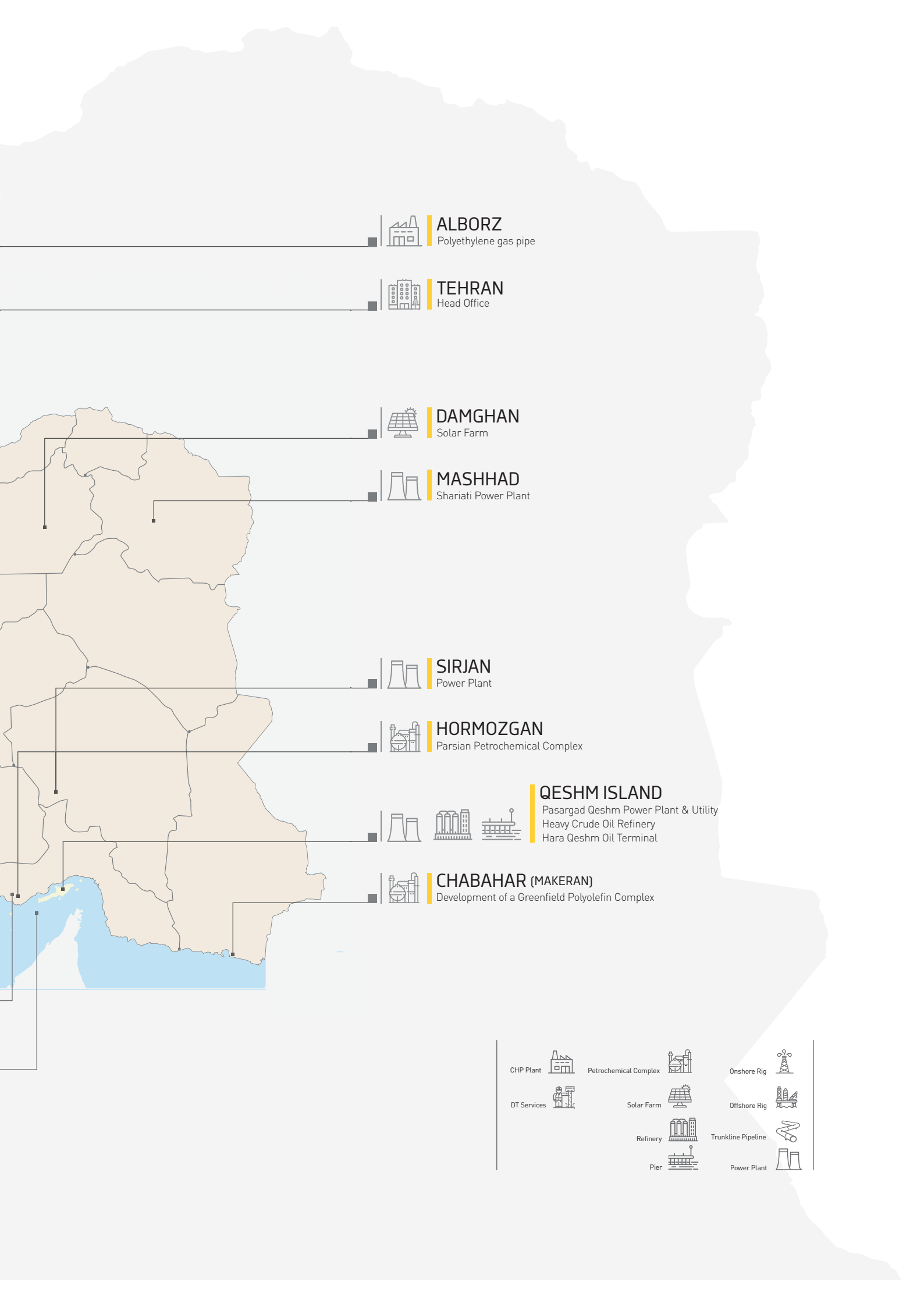
**HORMOZGAN
PASARGAD JACK UP DRILLING**
Increasing the production capacity of South Pars phases (phases 2 to 5)
Phase 13 of South Pars
Offshore drilling operations
Providing technical services
Drilling and support and logistics services of Yalda field
Logistics services and operations support



PERSIAN GULF
KISH: Provide drilling technical services to offshore project
Rental of the jack up drilling and provision of services in
different phases of South Pars field
SIRI: Rent of Pasargad 100 (jack up drilling)



PEDC FACILITIES & PROJECTS



ALBORZ
Polyethylene gas pipe



TEHRAN
Head Office



DAMGHAN
Solar Farm



MASHHAD
Shariati Power Plant



SIRJAN
Power Plant



HORMOZGAN
Parsian Petrochemical Complex



QESHM ISLAND
Pasargad Qeshm Power Plant & Utility
Heavy Crude Oil Refinery
Hara Qeshm Oil Terminal



CHABAHAH (MAKERAN)
Development of a Greenfield Polyolefin Complex

CHP Plant



Petrochemical Complex



Onshore Rig



DT Services



Solar Farm



Offshore Rig



Refinery



Trunkline Pipeline

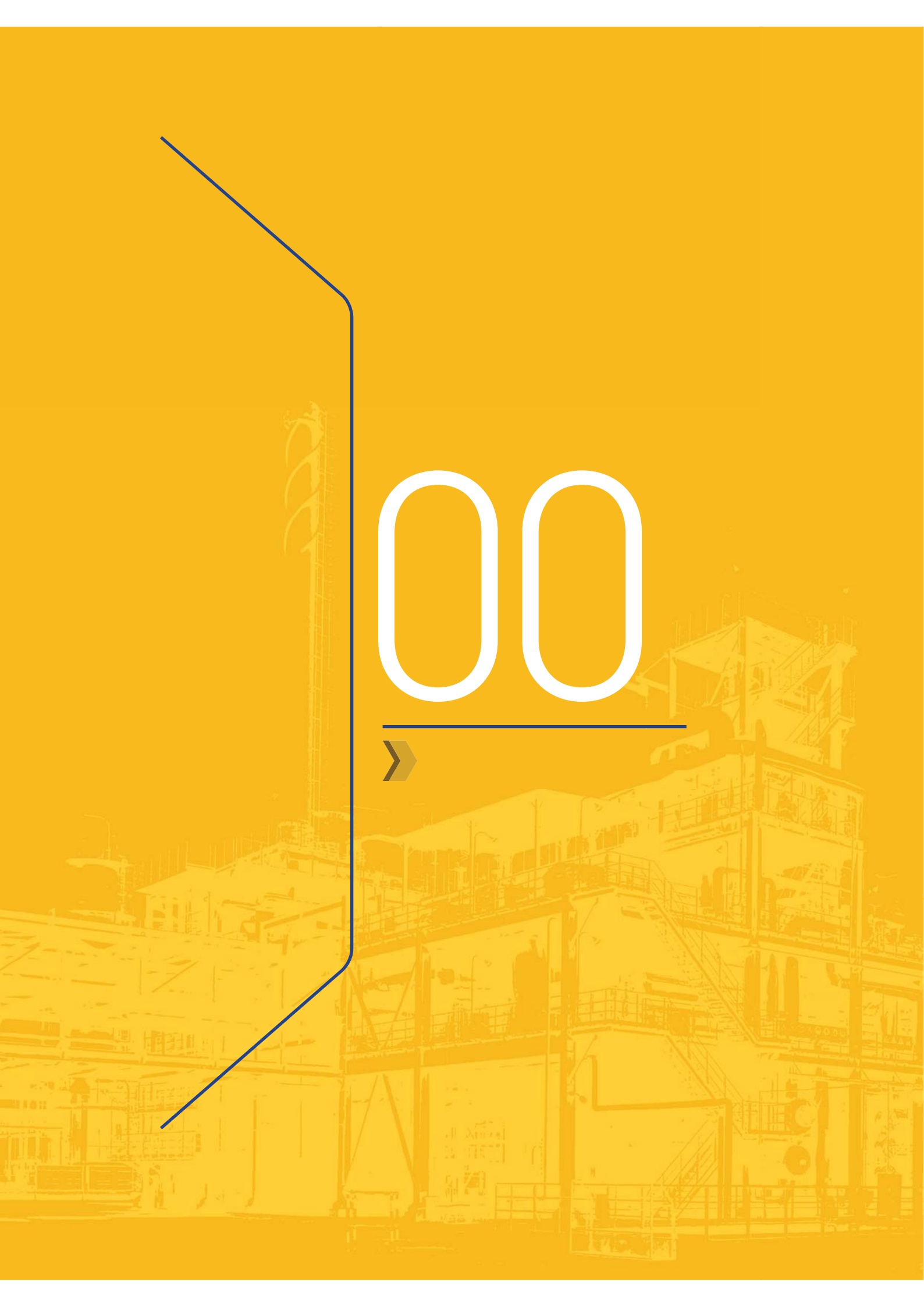


Pier



Power Plant





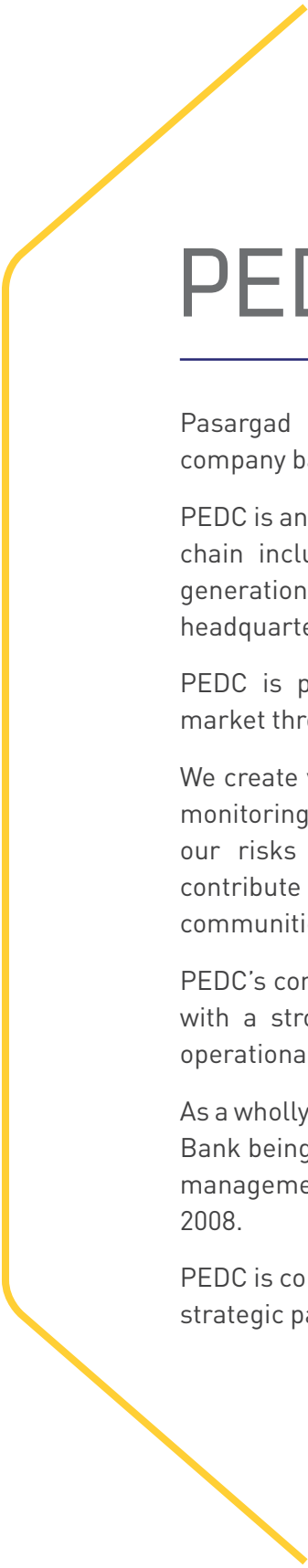
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About PEDC

تشرکت گسترش انرژی پاسارگاد
PASARGAD ENERGY DEVELOPMENT CO.



A thick yellow line starts from the top left, goes diagonally down to the right, then turns 90 degrees and goes straight down, and finally turns 90 degrees and goes diagonally down to the right again, ending at the bottom right.

PEDC AT A GLANCE

Pasargad Energy Development Co. (PEDC) is an independent energy company based in Iran.

PEDC is an integrated energy company whose activities span the entire value chain including exploration, production, refining, petrochemicals, power generation & renewables as well as new high-tech venture capitalizing. Our headquarter is located in Tehran.

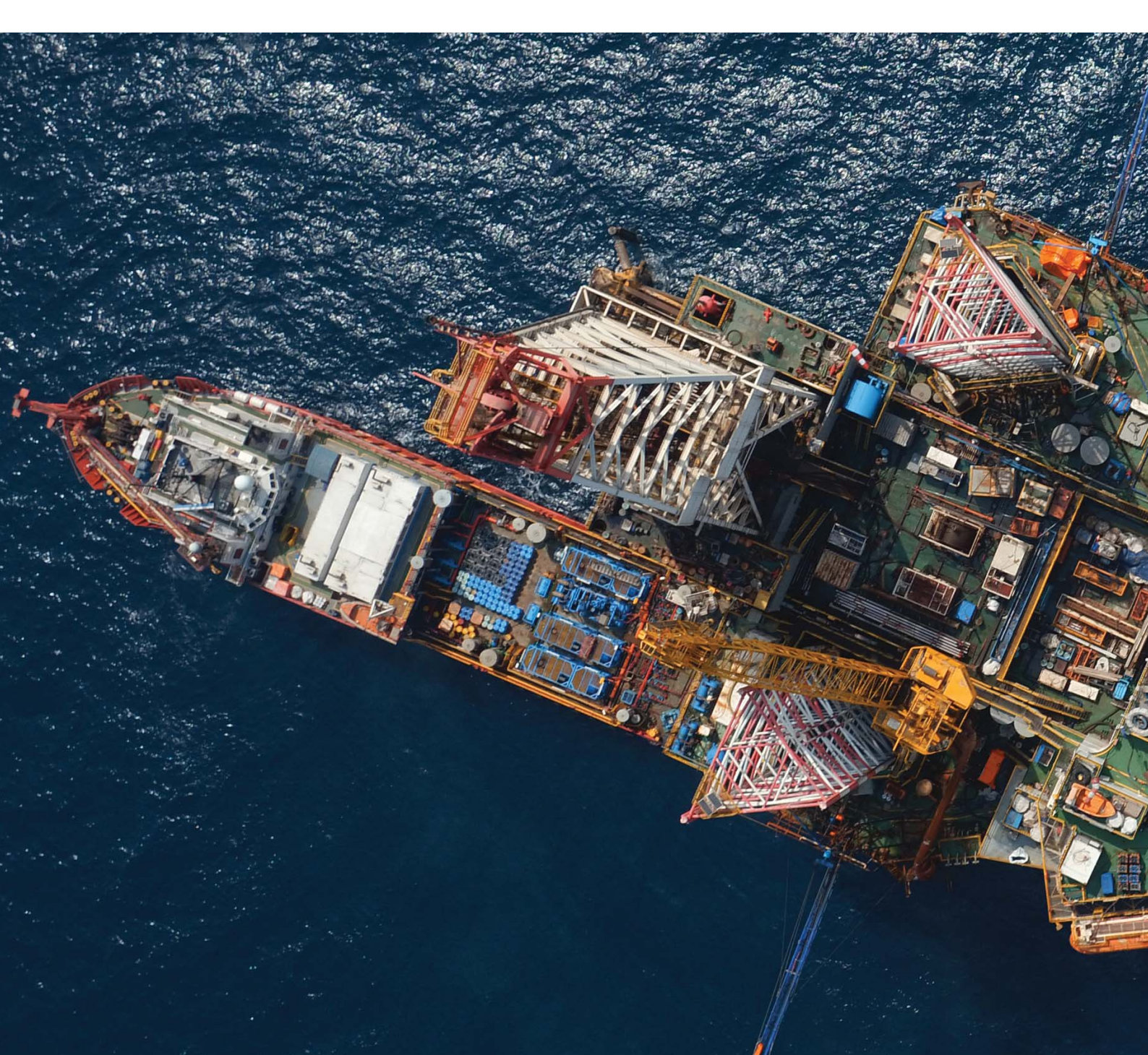
PEDC is present across the Iranian continental shelf and international market through its subsidiaries.

We create value for our shareholders through active investment, high-level monitoring of our projects, building world-class partnership and managing our risks effectively and making a balanced portfolio. Meantime, we contribute to the sustainable development of the energy sector and communities in MENA.

PEDC's competitiveness relies upon our values-based performance culture, with a strong commitment to transparency, cooperation and continuous operational improvement.

As a wholly owned subsidiary of the Pasargad Financial Group, with Pasargad Bank being a distinctive shareholder, we owe our success to our experience, management knowledge and strong local/international partnerships since 2008.

PEDC is committed to maintaining sustainability and being recognized as the strategic partner of choice in Iran's energy and petrochemical sector.



Our Vision

By 2025, PEDC will be a leading player among the top 10 Iranian companies, successful in creating sustainable value, recognized as strategic partner of choice, and the selected choice of employers, employees as well as the external providers in the field of energy and petrochemicals.



Our Mission

We aim to provide high-quality products and services in the field of energy and petrochemicals in Iran, our region and the world through development and management of our investment portfolio and world-class partnership. We aim to create value for our shareholders, ensure the long-term growth of the company, and contribute to the sustainable development of the energy sector and our society, as well.

Our Values

- ▶ Team spirit
- ▶ Excellence
- ▶ Integrity
- ▶ Commitment to Sustainable Development
- ▶ Partnership
- ▶ Flexibility

SUSTAINABILITY

Health, Safety & Environment

PEDC is aiming at respecting the need of better life for present and future generations. This mission is supported by its core value, which more consistent activities toward environment to have a more sustainable world. PEDC is committed to comply with the new global issues such as climate, energy and health.

PEDC believes that sustainability is a major issue for business success across the globe and is eager to engage in this movement. PEDC trusts: firmly believes that reaching sustainability is only possible by seeking economic performance and social responsibility while creating value for society and maintaining the environmental quality.



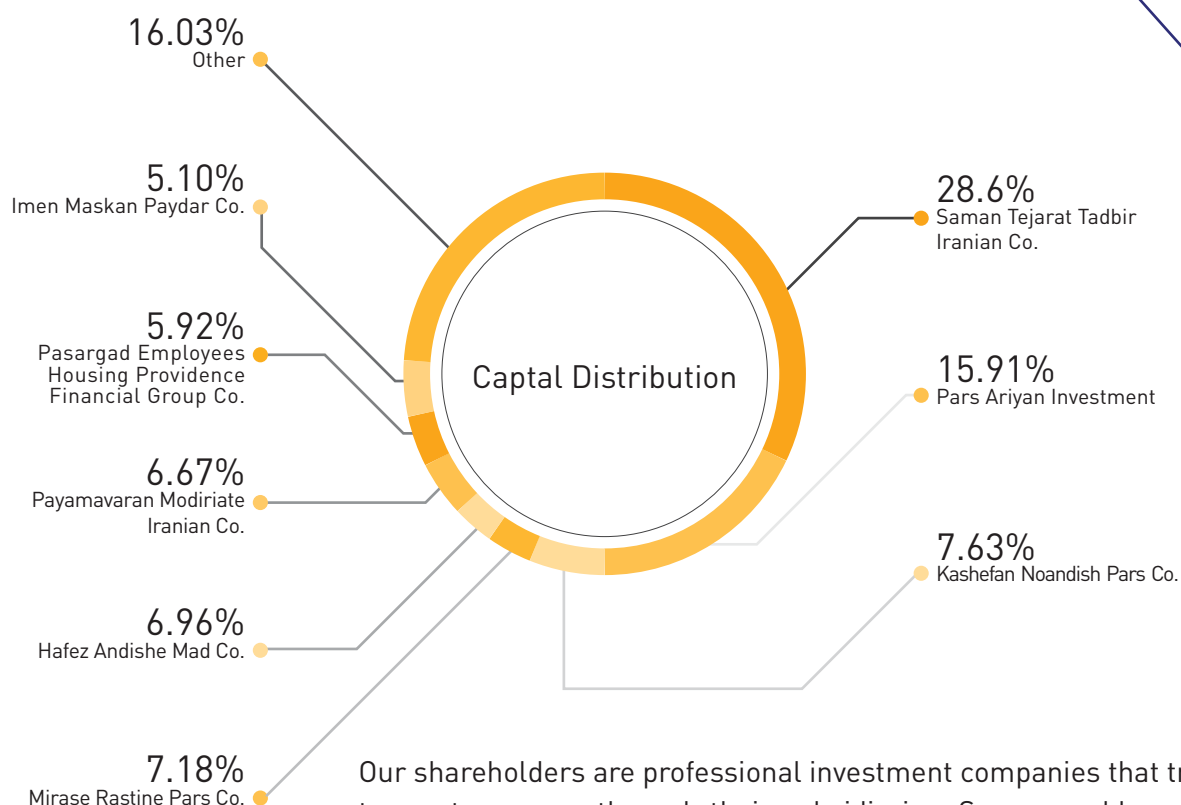
Health, Safety & Environment:

PEDC offers products and services in the safest way possible. In addition, we continuously work with our colleagues and contractors to encourage them to comply with our health, safety and environmental ethics.

We strive to conduct our businesses in a safe, injury free and environmentally friendly manner. We, maintain our values by our actions and conduct our business in an ethical way and simultaneously keep the following HSE principles:

- Improving our knowledge.
- Protecting people and the environment.
- Supporting and participating in community activities.

SHAREHOLDERS



Our shareholders are professional investment companies that try to create synergy through their subsidiaries. So we are blessed by our allies in financial matters like insurance, guarantees, financing and non-financial aspects. The shareholders have supported the company especially by capital increase during the years of activity. Total capital of the company (in million Rials) growth 15 times from 2010 to 2021.

The company, as one of the main subsidiaries in the Pasargad Financial Group, is supported by 2 main shareholders with an overall ownership of more than 40%. Saman Tejarat Tadbir Iranian co. is a subsidiary of Arzesh Afarinan Pasargad; a company active in securities trading that owns 29% share of PEDC.

Pars Aryan: The largest private sector investment company listed in Tehran Stock Exchange (TSE) and its subsidiaries, own 16% share of PEDC. Considering all PEDC shareholders, including the subsidiaries shareholders mentioned above, for the fiscal year ended 20 march 2021, the company had 17 shareholders.

Certificates received from TUV NORD



ISO 9001: 2015



ISO 14001: 2015



ISO 45001: 2018

Certificates received from **TUV NORD**



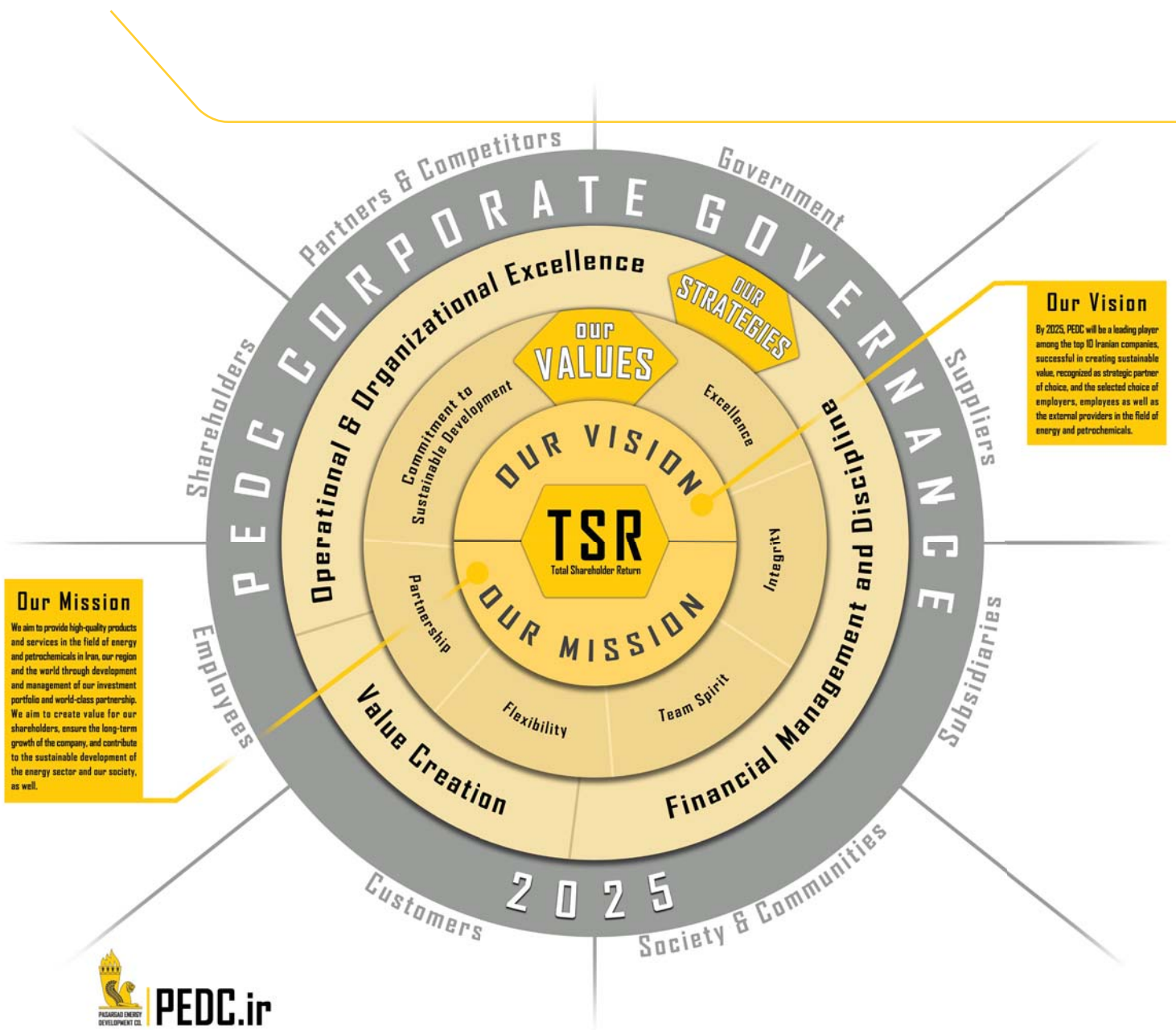
International
Organization for
Standardization



ISO 30401: 2018



ISO 31000: 2018



PEDC.ir



STRATEGIC BUSINESS UNITS



Upstream Division

- ▶ Exploration, Development and Production of Oil and Gas
- ▶ Engineering and Modeling of Oil and Gas Reservoirs
- ▶ Drilling Operation and Services



Power and Utility Division

- ▶ Conventional Thermal Power Plants
- ▶ Utility & Renewable Energies
- ▶ Power Plant Investment Projects:
 - In operating at a total power of 2000 MW
 - Under Construction with a capacity of 1000 MW



Downstream Division

- ▶ Petrochemical and Refinery Complexes
- ▶ Oil and Gas Pipelines and boosting stations
- ▶ Oil Storage Tanks
- ▶ LNG, GTL and NGL Units
- ▶ Marketing of Products & Trade of Energy Carriers

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Upstream Division

شرکت گسترش انرژی پاسارگاد
PASARGAD ENERGY DEVELOPMENT CO.



Upstream Division

Introduction

With upstream oil & gas sector, PEDC has successfully established itself a prominent position in the market by providing necessary entities and assets to execute projects at all sizes and scopes. Due to its outstanding growth and successful records in implementation of offshore and onshore drilling and services projects for National Iranian Oil Co. subsidiaries including POGC, IOOC, IOEC and NISOC as well as obtaining required quality certificates, standards and clients' satisfaction in terms of quality, timely operation and HSE performance; PEDC now stands among top oil and gas contractors of choice for NIOC. To this end the division contagiously improves its portfolio through exploration of new opportunities, merging and acquiring businesses, managing assets, managing risks, elevating managerial skills of senior managers and board members and searching for excellence.



Strategy

PEDC's upstream segment strategy is to:

Create value in the sector through synergizing, elevating and integrating the capacities and capabilities built in the subsidiary companies

UPSTREAM SUBSIDIARIES

Name of Company	Field of Activity
Pasargad E&P Co.	Exploration & Production (E&P)
Ostovan Kish Drilling Co. (OKDC)	Implement and Manage Offshore and Onshore Drilling Operations
Petro Danial Kish Co. (PDK)	Oil and Gas Wells Technical Services
Petro Kariz Omid Kish Co. (PKOK)	Directional Drilling Service Provider
Engineering Support Technology Development Co. (ESTD)	Engineering Services and Developing Computational Models
Tejarat Pasargad Co.	Procurement & Industrial Equipment
Pezhvak Energy Co.	Engineering & Operation



Portfolio

The seven companies in the division operate across various stages of value chain of upstream, each with its competitive advantage and notable market share. The portfolio of activities include

- Exploration
- Surface & Subsurface studies
- Engineering and Software
- Rig management & chartering
- Well design
- Well construction
- Engineering, Procurement and Drilling
- Logistics of Offshore and Onshore projects
- Installation
- Integrated oil & gas fields services
- Production
- Operation



Pasargad 100

Type	Independent 3-leg Jack up
Design	CP 300
Water Depth	300 ft.
Drilling Depth	30000 ft.
Built Year	2013
Leg Length	426 ft.
Class Notations	A1 Self-Elevating MODU
Max Variable Drilling Load	7716 KIPS
Accommodation	105 Persons
Derrick	36 ft. * 40 ft. Base * 170 ft. 1500 Kips. 14 Lines
Draw works	JC 90DB. 4 * 720 Kw Ac Motor
Top Drive	TDS 8 SA NOV. 750 Ton. 1150 HP



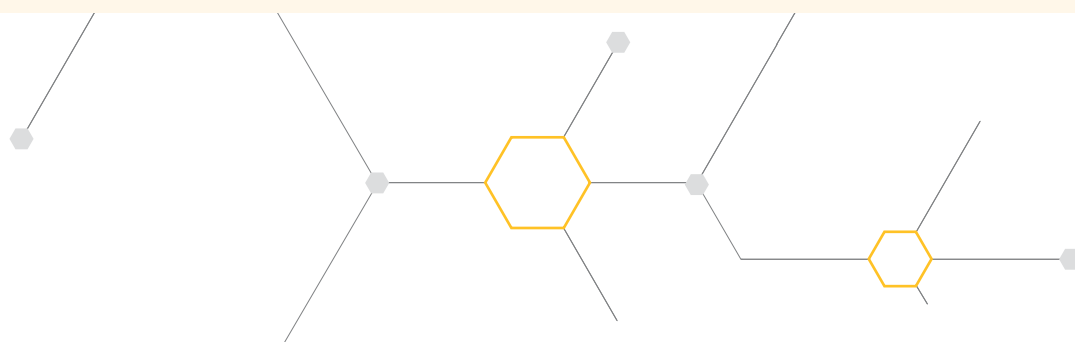
Introduction

Pasargad Exploration & Production Co. stands among few private and qualified Iranian E&P companies licensed and entitled by ministry of petroleum and NIOC to enter into contracts for development of oil and gas fields in Iran under the new contractual arrangements known as Iran Petroleum Contracts (IPC).

Combining a blend of senior petroleum and reservoir engineers and top experts as well as international E&P experts, plus the investment power and strong belief and support of Pasargad Bank as the major shareholders give Pasargad E&P a unique position among Iranian E&P companies as an operator.

Main Activities

- ▶ Exploration & Production (E&P)
- ▶ Full Field Study
- ▶ Field & Reservoir Screening
- ▶ Master Development Plan (MDP)
- ▶ Reservoir and Economic Evaluation
- ▶ Reservoir Characterization
- ▶ Drilling Procedure and Cost Optimization
- ▶ Well Planning
- ▶ Field Development
- ▶ Subsurface study
- ▶ Surface facility study and re-designing
- ▶ Appraisal wells and Coring plans



MANAGING DIRECTOR
Mr. Seyed Javad Mortazavi

Address: 1549957111, Number 12, Roozname Etelaat St., Mirdamad Blvd., Tehran, Iran

Telephone: (+98) 21 71743000 - **Fax:** (+98) 21 71743000

Email: PR@pasargadep.com **Website:** www.pasargadep.com

Portfolio:

Sepehr & Jufair Field Development

The National Iranian Oil Company (NIOC) and Pasargad Energy Development Company (PEDC) signed a contract for the integrated development project of Sepehr & Jufair fields in March 2018, marking the first field development contract awarded 100% to an Iranian private E&P company as its operator.

The two fields were discovered by digging the first well No. 1 Jufair, Khuzestan Province in southwestern Iran, in 1976. These fields are situated in the northeastern part of Abadan plain, 60 km southwest of the oil-rich city of Ahvaz.

The studies carried out by Pasargad E&P proved that given the structure of their reservoirs, Sepehr & Jufair fields can be developed via an integrated development project in order to maximize their profitability. After submission of the results of the studies and presentation of the technical and financial model of the fields, and carrying out assessments of various dimensions of the project, NIOC endorsed the proposal of Pasargad E&P for developing Sepehr and Jufair fields.

Now, for the purpose of developing and operating the two fields, NIOC and Pasargad Energy Development Company have signed a 20- year contract. The deal is aimed at production capacity of 110,000 b/d with an accumulated output of 512 million barrels from the two fields over a period of 20 years.

The CAPEX calculated for the development of Sepehr and Jufair fields is estimated at \$2,426m. Indirect costs are estimated at \$412m.

The main jobs envisaged to be carried out under this agreement include provision of an optimized scenario for developing the two fields, workover of the existing wells, installation of downhole pumps, drilling vertical and horizontal wells in Fahlian and Ilam reservoir layers (a total of 126 wells) and four wastewater wells, fracking operations, injection of water and gas for improved recovery rate of these fields and building oil collection and transmission pipelines and electricity transmission lines.

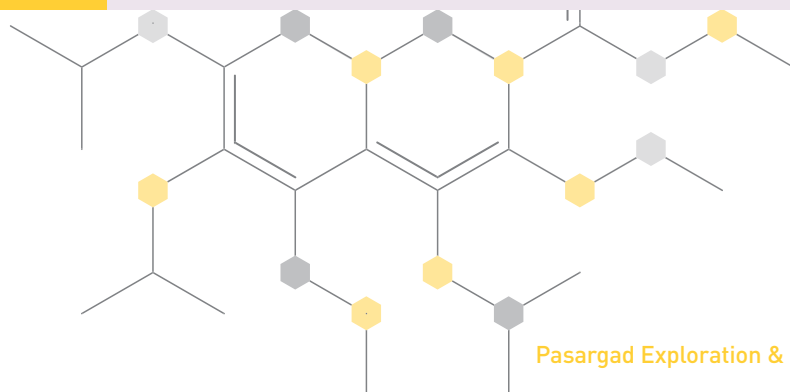
Once operational, the project, while increasing the country's crude oil production capacity in the oil-rich West Karoun area, will generate jobs on a large scale in the southwestern province of Khuzestan and create a good market, especially by creating and workshops for the repair of ESP pumps and other equipment.

Accordingly, Pasargad E&P Company is planning to apply proper management in the project and collaborate with international E&P companies and manufacturers to absorb the capital and technologies needed in the areas of enhanced recovery, modern drilling techniques as well as other relevant sectors.



Key Competitive Advantages:

- Strong support from knowledgeable human resources
- Availability of expertise and experience in international E&P activities
- Availability of key technical knowledge and experience
- Support from Pasargad bank as a reputable financial institution





Ostovan Kish Drilling Company (OKDC)

Introduction

Ostovan Ostovan Kish Drilling Company (OKDC) established in 2010 as a private company aiming for fulfilment of drilling operations in oil and gas industries as well as strategic management of drilling equipment in on land & off-shore fields, The Company has been operating in Iran's oil and gas Upstream sector since then.

OKDC has always tried to efficiently fulfil the activities, with maximum rate of safety and quality; and it provides related technical – specialized services for Iran's oil and gas industries by employment of expert staff within the framework of assigned duties. Currently, the company's activity has been focused on managing an offshore drilling unit owned by Pasargad Energy Development Co. Notwithstanding, the company attempts to

expand its activities for conclusion of new contracts in on land & off-shore drilling projects, provision of goods and equipment, as well as labor force required for its clients' drilling oil and gas wells.

Portfolio

- Operation management of offshore and land drilling units
- Provision of hardware and software maintenance systems required for drilling equipment
- Recruiting of efficient labor force for drilling industry

Main Activities

Rig chartering and management, Logistics of drilling projects and management

MANAGING DIRECTOR
Mr. Morteza Pakravan

Address: No. 148, 4th and 5th floor, Dastgerdi Street (Zafar), Tehran, Iran
Telephone: (+98) 21 75406000 - Fax: (+98) 21 26401672
Email: info@ostovan.com
Website: www.ostovan.com

- Supplying of equipment and parts required for drilling industry
- Providing Engineering and supervision services for construction and commissioning of drilling equipment in offshore and on land fields

List of Projects

Title of Project	Client	Scope of work	Status
Supplying, management and operation of one Mobile Offshore Drilling Unit	Oil and Gas Engineering Management in Pars Oil & Gas Company, Exploration Management in National Iranian Oil Company	Supplying, management and operation of one Mobile Offshore Drilling Unit for drilling an exploratory well in YALDA offshore field - (the 4th Part of consortium contract with Pars Oil & Gas Company)	Ongoing





Petro Danial Kish Company (PDK)

Introduction

Petro Danial Kish (PDK), a subsidiary of Pasargad Energy Development Company (PEDC), was established in 2010 as a technical service company for oil and gas wells.

As one of the fast-growth companies of Iran Industrial Management Inst. (IMI-100 list), PDK stands among top 500 companies in terms of growth and financial turn over. It has achieved other numerous achievements through its technology and knowledge driven human capital. Technology and people working together to deliver fantastic results is how PDK shows off as a solution-oriented company.



MANAGING DIRECTOR
Mr. Hashem Sabaghan

Address: 11th floor, Sayeh Tower, Opposite Mellat Park, Valiasr Ave. Tehran, Iran

Telephone: (+98) 21 26401766 - **Fax:** (+98) 21-26401758

Email: marketing@petrodanial.com

Website: www.petrodanial.com

PDK Specials

PDK have always tried to be a trusted advisor for costumers, a company providing solutions instead of only services. We have been able to achieve a high client satisfaction rating in all projects we involved and we are proud that our customers always refer to PDK for special and complex projects.

Followings are what differentiates us from other service providers in Iran:

- SPOL (Heavy-Foamy Oil experience)
- Reduced client cost by introduction and implementation of Rigless
- High-Rate Clean-Up operation
- First Iranian service company performed High-Rate Test by Separator
- Special ignition system with zero failure (An Innovative of PDK R&D Project)
- Introducing the most advanced Testing Data Acquisition (TDA) technology in Iran
- Perforated the deepest well in South Pars
- Most accurate CT perforation correlation method in Iran (Memory mode GR)
- Well Test Operation on a floating barge (Hengam Field)



Portfolio

The company enjoys the most diverse active range of services to serve local onshore and offshore clients. What has positioned PDK among the first choices of clients are its capable human resources who have worked for years for international service companies, its knowledge sharing, innovative and robust learning culture as well as respect for and attention to clients' technical and operational requirements.



Main Activities

PDK's main activity is providing oil and gas wells technical services to offshore and onshore client.

At PDK, we deliver the following range of technical services:

- ▶ Wireline logging
- ▶ Surface Well Testing (Conventional and High-Rate)
- ▶ Perforation
- ▶ Stimulation
- ▶ Coiled Tubing
- ▶ Drill Stem test
- ▶ Slickline
- ▶ Sampling (Surface and Downhole)
- ▶ Data Interpretation
- ▶ Service Barge

List of Projects

Title of Project	Client	Status
Well Testing and TCP Services	Iranian Offshore Oil Company (IOOC)	Completed
Well Testing Services	Oil Industries' Engineering and Construction (OIEC)	Ongoing
Well Testing Services	Petro Pars Co (PPL)	Ongoing
High Rate Clean-Up Services	National Iranian Drilling Company (NIDC)	Ongoing
Well Testing Services	South Pars Oil and Gas Company (POGC)	Ongoing
Perforation, Coiled Tubing, Slickline, High Rate Clean-Up Services	DANA Energy	Ongoing
Design and installation of Burner Boom on & 16SPD15	DANA Energy	Completed
Well Testing Services	Petropars Oilfield Services Company (POSCO)	Ongoing
Well Testing Services	Drilling Company Iran (DCI)	Ongoing
Electrical Logging & Perforation Services	Petro Pars Co (PPL)	Ongoing
Wireline Logging Services	Pars Energy-Gostar Drilling and Exploration Company (PEDEX)	Completed
Electrical Logging & Perforation Services	Petropars Oilfield Services Company (POSCO)	Ongoing
Electrical Logging Services	Oil Industries' Engineering and Construction (OIEC)	Completed
Wireline Logging Services	Petro Gohar Farasahel Kish Co. (PGFK)	Completed
Well testing & Slickline Services	Petro Gohar Farasahel Kish Co. (PGFK)	Ongoing
Perforation Services	Sarvak Azar Engineering and Development Company	Ongoing
Perforation Services	Saba Rig Providing (SRP)	Ongoing
Provision of Well Testing Services	Oil Industries' Engineering and Construction (OIEC)	Ongoing
Provision of Well Testing Services	Iranian Offshore Oil Company (IOOC)	Ongoing



Introduction

PKOK was founded by leading upstream experts with a diverse background in innovation. PKOK as a PEDC subsidiary strives to deliver valuable and salient solutions to directional drilling demands in oil and gas drilling industry.

Employing high-end technologies and seasoned experts who have served long in international service companies empower PKOK to deliver specialized services.

Services & Equipment

- Directional Drilling Services
- GYRO Services
- MWD Services
- Directional Drilling Engineering Services
- Drilling Dynamic
- Shock & Vibration
- Slick Slip
- Full Set LWD Services (Logging While Drilling)
- PWD (Pressure While Drilling)
- Down-hole Motor
- Drilling Accessories such as Jars, Stabilizers, Shock Subs & etc.

Portfolio

At the moment the company is a leader in directional drilling services and provides its services through its Kish Island equipped base which has been observed by IOCs such as Total for future cooperation. PKOK clients include DCI, IOOC, POGC, PGFK and PEDEC. In addition, PKOK is participating in the new onshore Directional & LWD project.

Main Activities

Directional Drilling Service Provider

MANAGING DIRECTOR
Mr. Hossein Moshtagh

Address: 3th floor, No. 150, JinWest Building, next to Saman Bank, not far from Madar Square, Mirdamad Blvd., Tehran, Iran.

Telephone: (+98) 21 26410266 - **Fax:** (+98) 21 26410191

Email: infopkok@petrokariz.com **Website:** www.petrokariz.com



List of Projects

Title of Project	Client	Scope of work	Status
Provision of Directional Drilling Service, MWD and related rental equipment	DCI – IOOC Sirri Field - Offshore	Directional Drilling Services, MWD, LWD Full set services & GYRO Services	Ongoing
Provision of LWD Full Set Services	DCI – IOOC Sirri Field- Offshore	LWD Full set Services	Ongoing
Provision of GYRO Services.	DCI – IOOC Sirri Field- Offshore	GYRO Services with Wireline Accessories	Ongoing
Provision of Directional Drilling Service and related rental equipment	DCI – POGC Fields- Offshore	Directional Drilling Services, MWD & GYRO Services	Ongoing



Engineering Support Technology Development Company (ESTD)

Introduction

„TAFAHOM“, (ESTD) as one of the subsidiaries of Pasargad Energy Development Company (PEDC) was established in 2012 aiming to provide engineering services and development of specialized softwares, in the value chain of the upstream oil and gas sector of PEDC. This knowledge-based company, by recruiting elite human resources from among the graduates of the country's top universities with various engineering specialties and employing specialized staff in the field of oil and gas, created the ground for its growth in the production of specialized softwares in the field of oil and gas. At present, the company has developed a three-dimensional simulation software for hydrocarbon reservoirs by combining specialized knowledge in the field of software and expertise in the field of oil and gas engineering. RETINA Simulation is the name of the most important software production of TAFAHOM Company, which is provided in the form of license sales and maintenance services to the customers. According to the evaluation done by the department of the Deputy Minister of Engineering, Research and Technology of the Ministry of Petroleum, TAFAHOM with RETINA Simulation is ranked first among more than 200 active knowledge-based companies in the field of oil and gas and is registered in the approved vendor list by the Ministry of petroleum (AVL).

Portfolio

As a knowledge-based company, TAFAHOM (ESTD) rigorously and continuously strives to meet the specific demands of clients in the oil and gas industry including:

- Hydraulic fracturing design and optimization using RETINA Stimulation™
- Perforation design and optimization using RETINA Stimulation™
- Carbonate fractured reservoir full field study using RETINA Simulation™
- Non-conventional reservoir full field study using RETINA Simulation™
- Fully customized and effective engineering software development

Main Activities

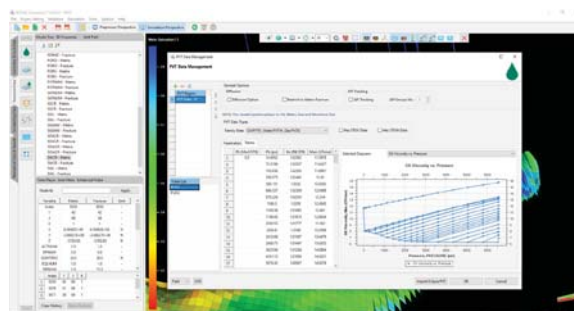
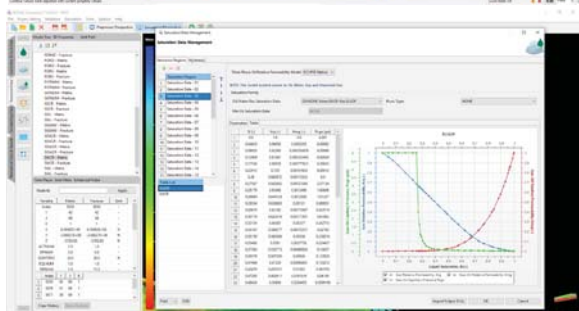
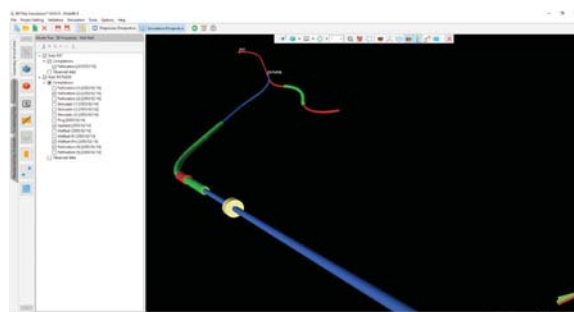
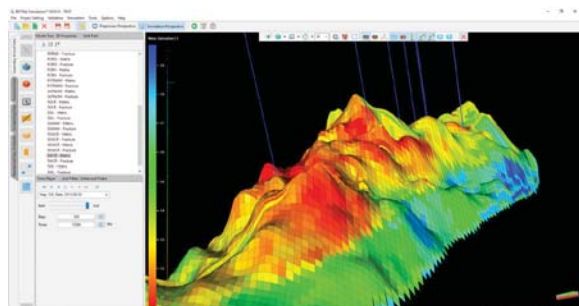
Engineering Services and Developing Specialized Oil and gas Softwares

MANAGING DIRECTOR
Mr. Sina Mohajeri

Address: Unit 313, Office 3, Mirdamad Grand Bazaar, between Valiasr Street and Jordan Mirdamad Boulevard, Tehran, Iran.

Telephone: (+98) 2188884437 - **Fax:** (+98) 21 88788649

Email: info@estd.com **Website:** www.estd.com



List of Projects

Title of Project	Client	Scope of work	Status
Evaluating and testing RETINA	Iranian Central Oil Field	Evaluating RETINA	Completed
Modelling and analysis a damage in a Turbine	MAPNA Turbine Engineering and Manufacturing Company (TUGA)	Analysis the damage	Completed
Evaluating and testing RETINA	Iranian Offshore Oil Company	Evaluating RETINA	Completed
Evaluating and testing RETINA	Petroleum Engineering & Development Company	Evaluating RETINA	Completed
Evaluating and testing RETINA	National Iranian South Oil Company	Evaluating RETINA	Completed
Evaluating and testing RETINA	Offshore & Onshore Development Tasdid	Evaluating RETINA	Completed
Cooperation in field Study	Institute of Petroleum Engineering	Evaluating RETINA	Completed
License Agreement for RETINA Simulation	Pasargad Exploration & Production	Purchasing	Completed
Data Management of Reservoirs	Pasargad Exploration & Production	-	Completed
Sepehr and Jufair Reservoir Study	Pasargad Exploration & Production	-	Completed



Tejarat Pasargad Company Company

Introduction

Tejarat Pasargad Co. (TPCO) plays a prominent role in supplying material and equipment in Oil, Gas, Petrochemical and Energy industries, as a commercial arm of PEDC holding. This company founded in 2008 and from then on, has been involved in numerous projects.

Moreover, Tejarat Pasargad owns a subsidiary company, named "Petrokala Pasargad kish", which provides technical drilling services for O & G companies. This company registered in Kish Island and has a spacious and equipped workshop there.

MANAGING DIRECTOR
Mr. Ali Firouzifard

Address: Unit4, No. 9, 3rd Alley, Sanjabi (Behrooz) St., Mirdamad Blvd., Tehran, Iran.

Telephone: (+98) 21 26709583 - **Fax:** (+98) 21 26709189

Email: info@tejaratp.com **Website:** www.tejaratp.com

Main Activities

Currently, Tejarat Pasargad Co. is able to provide the following services with its customers:

- Participating in supplying, developing and running projects
- Supplying projects with equipment, machineries and material, from international and domestic sources
- Turnkey procurement solutions
- Financial engineering and managing, and financing projects
- Petroleum and petrochemical products trading
- Providing required technical knowledge for high-tech projects and programs, in cooperation with universities, science-based companies and technology providers
- Providing support services for up-stream projects through the subsidiary company





Pezhvak Energy Company

Introduction

As the operation and engineering arm of PEDC, PECO was established to play the role of an Integrated Project Management co. in oil & gas upstream market. Employing seasoned professionals in the fields of drilling, operation, logistic and project planning, PECO is now undertaking multidisciplinary projects such as Engineering, Procurement and Drilling (EPD), Procurement, Construction and Financing (EPCF) as well as offshore-onshore logistic planning and operation. What PECO offers as an agile integrated project management company to clients brings them more efficiency in costs and time, less transactions costs in contracts, responsiveness to new requests and changes in projects and flexibility to clients emerging needs.

Main Activities

Current project:

- ▶ Provision of jack-up drilling unit along with related services, procurement and logistic services to enhance production rate of South Pars phases 2-5 wells
- ▶ Provision of logistic services to the giant E&P project of Sepehr and Juffair oil field development.
- ▶ EPC/EPD management of Siahmakan oil field development:
- ▶ Providing project management services
- ▶ Engineering services
- ▶ Contract management
- ▶ Logistic services for onshore/offshore projects
- ▶ Procurement services
- ▶ MC of EPDS, EPDF, EPC projects

MANAGING DIRECTOR
Mr. Abbas Qobadi

Address: No.139, Pasargad Building, Mirdamad Blvd, Tehran, Iran.
Telephone: (+98) 21 26709301 - **Fax:** (+98) 2126401787
Email: info@pe-co.ir - office@pe-co.ir
Website: www.pe-co.ir

Downstream Division

تشرکت گسترش انرژی پاسارگاد
PASARGAD ENERGY DEVELOPMENT CO.

02





Downstream Division

Introduction

Petrochemicals

Based on the availability of feedstock at a premium rate, large number of operating petrochemical plants, technical expertise and a vast local market coupled with extensive experience, Iran's petrochemical industry with its solid foundations promises a bright future for investment.

Benefiting from this opportunity and focusing on cutting-edge technology, PEDC is studying many specialized upstream and downstream petrochemical projects of high value-added to achieve a suitable rate of return and a fair market share. PEDC's general strategy involves establishment of plants with the emphasis on value creation in petrochemical value chains.

Refineries

Local refineries can currently supply almost 70% of national demand while the country depends on imports for the remaining 30%. Meantime, refineries in Iran enjoy the advantage of feedstock availability at a competitive price. These opportunities coupled with the strategic location of Iran in the Middle East furnish the right environment for building new refineries.

To participate in this flourishing market, PEDC envisages a number of projects and locations under study to win a foothold in the local and international markets.



Portfolio

Our portfolio includes our projects that are handled by our subsidiaries:

- Sina Chemical Industry Development Co.
- Soroush Energy Paydar Co.
- Romak Energy Saramad Co.
- Fajr Kerman Petrochemical Complex Co.
- Pars Behin Qeshm Oil Refinery Co.
- Javid Energy Parto Co.
- Pardis Fanavarzan Alborz Zanzan Co.
- Poly Ethylene Gostaran Alborz Co.

DOWNSTREAM SUBSIDIARIES

Name of Company	Field of Activity	Title of Project
Sina Chemical Industry Development Co.	Implementation of Petrochemical Complex	Greenfield, Polyolefin Complex, Chabahar free zone
Soroush Energy Paydar Co.	Implementation of Petrochemical Complex	Parsian Petrochemical Park
Romak Energy Saramad Co.	Implementation of Petrochemical Complex	Mono Ethylene Glycol (MEG)
Fajr Kerman Petrochemical Co.	Implementation of Petrochemical Complex	Elastomer Complex
Pars Behin Palayesh Naft Qeshm Oil Co.	Implementation of Refinery	Qeshm Heavy Crude Oil Refinery
Javid Energy Parto Co.	Implementation of Refinery	Siraf Condensate Refinery
Pardis Fanavaran Alborz Zanjan Co.	Development of Industrial Park and Electrical Energy Production	Industrial Park & Power Plant
Polyethylene Gostaran Alborz Co.	Manufacturer of Gas PE Pipes from 25 to 225 mm	
Behin Energy Sarmad Co.	Trading Equipment & Petrochemicals	
Hengam Qeshm Industrial Mobilization and Development Co.	Procurement & Industrial Equipment & Financer of Hara Qeshm Jetty	
Hara Qeshm Port Construction & Operation Co.	Supervision of Hara Qeshm jetty	

Main Activities

- ▶ Working towards managing existing investment and projects and developing new business opportunities
- ▶ This Division is the execution arm of communications with subsidiaries
- ▶ Supporting administrative and monitoring fields & projects
- ▶ Supporting decisions on the best opportunities for investment
- ▶ Supporting reports on fulfillment of obligations
- ▶ Develop and expand businesses by seeking new projects/ opportunities and finding new opportunities (projects, JVs, etc.)
- ▶ Provide technical knowledge to the division's team to support their activities
- ▶ Transfer knowledge across the holding, divisions and subsidiaries to boost the divisions' knowledge and efficiency in solving issues and risks

Introduction

Sina Chemical Industries Development (SCID) is planning the development of a Greenfield Polyolefin Complex in Chabahar free zone authority, using natural gas as feedstock by means of MTO technology.



MANAGING DIRECTOR
Mr. Seyed Ahmad Hosseini

Address: Unit 15, No 9, 3rd Ave., Sanjabi St., Mohseni Sq., Mirdamad Blvd, Tehran, Iran.

Telephone: (+98) 21 26709607 - **Fax:** (+98) 21 26709505

Email: scid@pedc.ir

PROJECT TYPE: Polyolefin Chain Program

Location: Chabahar Free Zone (CFZ), Sistan and Baluchestan Province, Iran

Area: 45 Hectares

Start Date: 2019

Projected Production Date: 2023

Production Capacity

Product	Nominal Capacity (KTA)
Methanol	1650
Polypropylene	420
Polyethylene	236

Feedstock

Product	Nominal Capacity (MMNm ³ /Y)
Natural Gas	1410

Applications

Product	Application
Methanol	Feedstock, Fuel, Solvent
Polypropylene	Injection Molding, Film & Sheet, Raffia, Fiber
Polyethylene	Blow Molding, Pipe & Extrusion, Injection Molding,

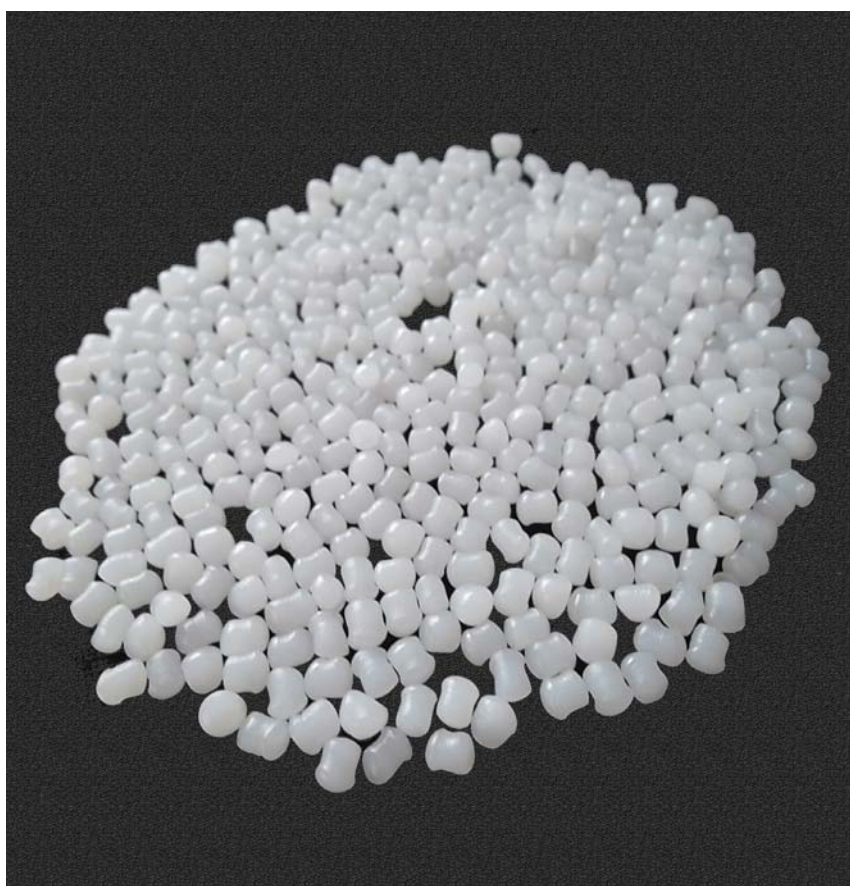


Soroush Energy Paydar Company

Soroush Energy Paydar Company

Introduction

Pasargad Energy Development Company (PEDC) intends to implement Parsian Petrochemical Complex project in Parsian Energy-Intensive Industrial Zone in south of Iran. PEDC has established Soroush Energy Paydar Company (SEPID) as a special purpose vehicle (SPV) to implement the project. The project consists of a methanol plant to convert natural gas into methanol, followed by downstream polymer plants to convert methanol to polymer-products. Products will be exported to international markets.



MANAGING DIRECTOR

Mr. Mohammad RiazKhalili

Address: No.3, Hoshyar Alley, Allameh Shahidi St., Jahan Koodak, Haghani Blvd, Vanak Sq, Tehran, Iran.

Telephone: (+98) 21 82172400-4 - Fax: (+98) 21 82172400-4

Email: Sepid@pedc.ir

PROJECT TYPE: Petrochemical Complex

Location: Parsian Energy-Intensive Industrial Zone (PEIIZ), Hormozgan, Iran

Area: 160 Hectares

Start Date: 2020

Projected Production Date: 2025

Production Capacity	
Product	Nominal Capacity (KTA)
Methanol	1650
Polypropylene	310
HDPE	250
EPDM	50
C4	10.4
C5+	3.7

Feedstock	
Product	Nominal Capacity (MMNm ³ /Y)
Natural Gas	1540

Applications	
Product	Application
Polypropylene	Injection Molding, Film & Sheet, Raffia, Fiber
Polypropylene	Blow Molding, Pipe & Extrusion, Injection Molding, Film & Sheet
EPDM	Rubber partsresistant to heat, moisture and sunlight in vehicle manufacturing
Methanol	Feedstock, Fuel, Solvent
C4/C5+	Fuel

Introduction

Romak Energy Saramad is a subsidiary of PEDC and is incorporated as the Special Purpose vehicle (SPV) to manage the development of a petrochemical plant in the Petrochemical Special Economic Zone in consist of a Mono Ethylene Glycol (MEG) plant and it consists of a methanol plant and its downstream plants to convert the whole methanol produced into chemicals including propylene, glacial acrylic acid, acrylates and OX O-alcohols.



MANAGING DIRECTOR
Mr. Morteza Movarrei

Address: Unit 5, No 9, 3rd Ave., Sanjabi St., Mohseni Sq., Mirdamad Blvd,
Tehran, Iran.
Telephone: (+98) 21 26709410 - Fax: (+98) 21 26709611
Email: Romakenergy@pedc.ir

PROJECT TYPE: Mono Ethylene Glycol (MEG)

Location: Petrochemical Special Economic Zone

Area: 25 Hectares

Start Date: 2020

Projected Production Date: 2024

Production Capacity

Product	Nominal Capacity (KTA)
Mono Ethylene Glycol (MEG)	220

Feedstock

Product	Nominal Capacity (MMNm ³ /Y)
Natural Gas	612

Applications

Product	Application
Mono Ethylene Glycol (MEG)	Feedstock for PET, Anti freeze



Fajr Kerman Petrochemical Company (FKPC)

Introduction

Fajr Kerman Petrochemical Complex (FKPC), a subsidiary of Pasargad Energy Development Co. (PEDC), is a company under the authority of Pasargad Financial Group. It was established on May 24, 2014 in Kerman, Iran. PEDC acts as energy holding under the Pasargad group, looking for opportunities in energy and petrochemical sectors. FKPC's primary goal is to create added value from natural resources (Natural Gas monetization) and also to generate opportunities for further development of downstream industries.

Nowadays the five main engineering plastics, Polyamide, Polycarbonate, MPP0, PBT/PET are very popular rather than thermoplastic resin. Among the engineering plastics, Polyacetal (POM/ Polyoxymethylene) has very versatile usages and valuable applications. However, there are very limited Sellers who have POM manufacturing technology

The project scheme is benefiting from the Polyoxymethylene technology, which has nominated the FKPC as one of forerunners within this field. Moreover, FKPC will be one of the leading producers of Polyacetal polymers in the Iran. These polymers are widely used in automobile industry and other major polymer related industries.



MANAGING DIRECTOR
Mr. Ali Sharifi

Address: Unit 1, No 9, 3rd Ave., Sanjabi St., Mohseni Sq., Mirdamad Blvd, Tehran, Iran.
Telephone: (+98) 21 26709122 - Fax: (+98) 21 26709103
Email: Info@fkpc.co.ir
Website: www.fkpc.co.ir

PROJECT TYPE: Acrylates Chain Program

Location: Kerman, Kerman Province, Iran

Area: 150 Hectares

Start Date: 2020

Projected Production Date: 2024

Production Capacity: Production is under study

Product	Nominal Capacity (MMNm ³ /Y)
Polyacetal	30

Feedstock	
Product	Nominal Capacity (MMNm³/Y)
Natural Gas	73

Applications	
Product	Application
Methanol	Intermediate
Formaldehyde	Intermediate
Polyacetal	Automobile Industries, Electrical/Electronic Industries. Other Uses include plumbing, Sheets/rods/tube, and medical products (pacemakers, artificial heart valves, etc.)



Pars Behin Palayesh Naft Qeshm Company

Introduction

Pars Behin Palayesh Naft Qeshm Company is a subsidiary of Pasargad Energy Development Company in the Qeshm Island Free Zone.

The main mission of Pars Behin Palayesh Naft Qeshm Company is to construct Qeshm Heavy Crude Oil Refinery located in Qeshm Island in the southern Hormozgan Province.

The refinery is under construction in two individual phases with the same product including bitumen as the main product and its byproduct light crude oils. The refinery has been designed in a way that light crude oils could potentially be replaced by naphtha, kerosene and gas-oil after sulfur hydro treating.

The main aspects of the construction of refinery in Qeshm Island are: Production of high-quality products in compliance with Euro 2005 standards, reduction of environmental pollution, energy efficiency, improving the efficiency of trading and operation.



MANAGING DIRECTOR
Mr. Qasem Mahmoodi

Address: Unit 12, No 9, 3rd Ave., Sanjabi St., Mohseni Sq., Mirdamad Blvd, Tehran, Iran.

Telephone: (+98) 21 26709416-17 - Fax: (+98) 21 26709726

Email: info@parsbehin.com

Website: www.parsbehin.com

PROJECT TYPE: Heavy Crude Oil Refinery

Location: Qeshm Island (free zone), Hormozgan Province, Iran

Area: 46 Hectares

Projected Production Date: 2020

License & Basic Engineering: Hormuzan Energy Industry Development Company (HEIDCO)

Detail Engineering: Hampa Energy Engineering & Design Company (HEDCO)

PC Contractor: Asphalt Tous Company

Production Capacity

Product (EachPhase)	Quantity
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Light Crude Oil	6,200,000 Bbl/Year
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Bitumen (In Normal Condition only one of below Products will be produced)

Penetration Bitumen 40/50	853 KTA
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Penetration Bitumen 60/70	881 KTA
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Penetration Bitumen 85/100	939 KTA
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Feedstock

Product	Quantity	Source
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Phase1: Heavy Crude Oil	35,000BPSD	Soroosh and Nowrooz Oil fields
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Phase2: Heavy Crude Oil	35,000BPSD	Soroosh and Nowrooz Oil fields
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Applications

Product	Application
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Bitumen	Building&Industrial Paving: Road Surfacing, Roofing, Water Proofing..... Hydraulics& Erosion Control: Spraying and some Mixing Application..... Industrials: Electrical Products, Paints and Enamels.....
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Light Crude Oil	Feed stock for Light Crude Oil Refineries
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Javid Energy Parto Co (jepco)

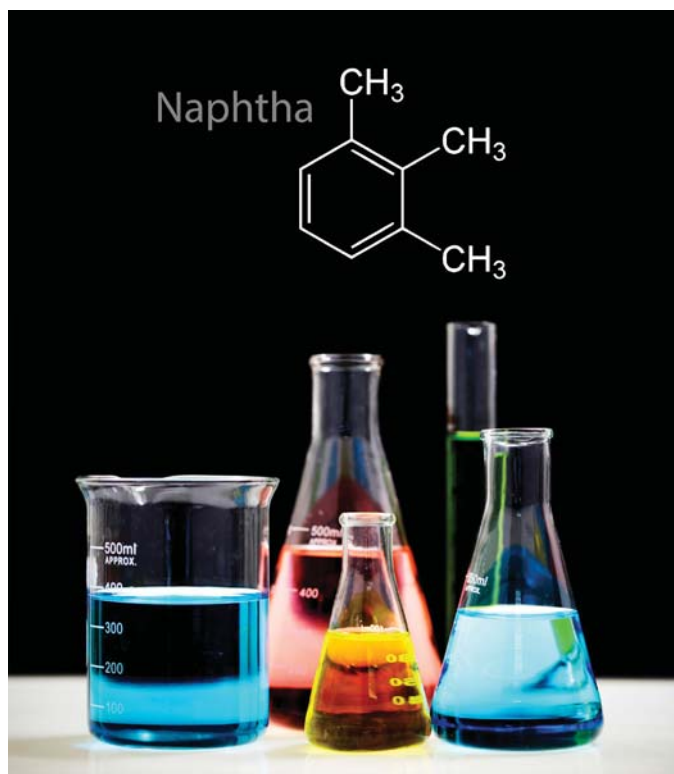
Javid Energy Parto Company

Introduction

Siraf Refineries Park Program is defined with the aim of preventing wholesale gas condensate, creating added value, creating jobs and ensuring maximum profit gain from South Pars gas field. It is planned to be built in Bushehr Province.

The Siraf Refinery Park has 8 gas condensate refineries, each of which with a capacity of 60,000 BPSD. The project started in 2015. Javid Energy Parto Company (JEPCo) is the owner of refinery No.4.

The construction period is set at 3 years for a 20-year production period.



MANAGING DIRECTOR
Mr. Sadrollah Sardashti

Address: 4th floor, No. 150, JinWest Building, next to Saman Bank, not far from Madar Square, Mirdamad Blvd., Tehran, Iran.

Telephone: (+98) 21 26403850-55 - Fax: (+98) 21 26403856

Email: Info@Jepco.co

Website: www.jepco.co

PROJECT TYPE: Gas Condensate Refinery

Location: Assalouyeh (Special Zone), Bushehr Province, Iran

Area: 16 Hectares

Start Date: 2019

Projected Production Date: 2022

Basic Engineering: EIED and TOYO (completed)

Licenses

Operational Unit	Licensors
Naphtha Hydrotreating Unit (NHT)	Haldor Topsoe
LPG treating Unit (LPT)	Axens
Middle Distillate Hydrotreater Unit (MDH)	Axens
Sulfur Recovery Unit (SRU)	KT
Hydrogen Production Unit (HPU)	KT

Feedstock

Product	Quantity (BPSD)	Source
Gas Condensate	60,000	Kangan, South pars-2

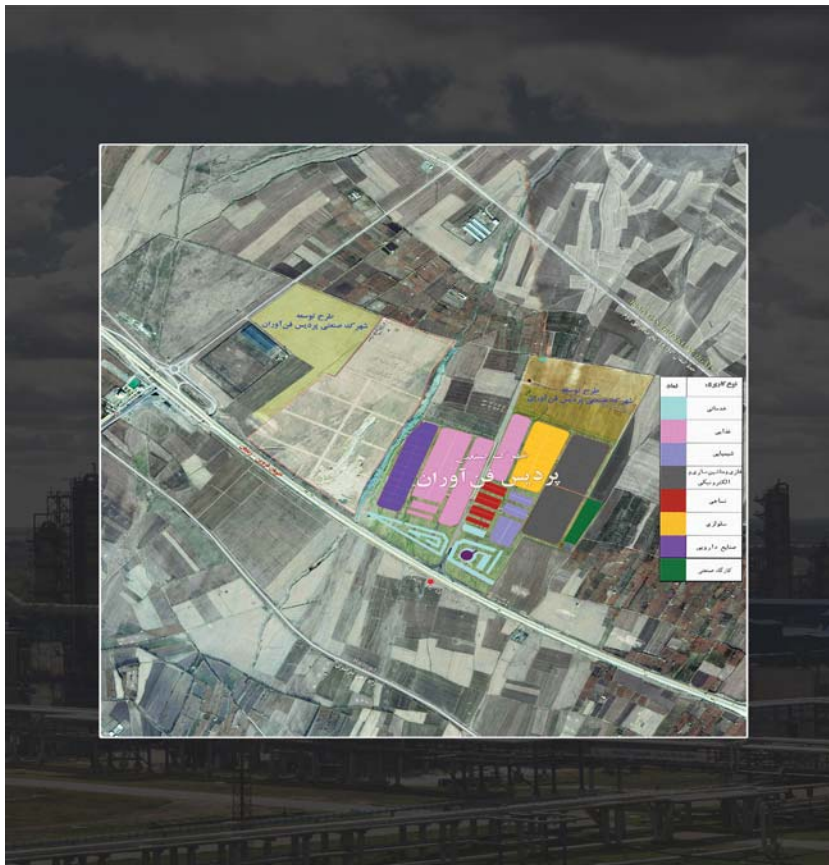
Products

Product	Nominal Capacity (KTA)	Application
Naphtha	1534	As a feedstock for Olefin petrochemical plant and export
Kerosene	185	Fuel
LPG	82	Fuel
Gas Oil	651	Fuel
Residue	9	Fuel Oil



Pardis Fanavaran Alborz Zanjan Company (PFA)

The PFA Company is established in 2011 as a means of designing, consulting and investing in the construction of specialized, public, commercial, service, residential industrial parks; construction of industrial units; design and consulting and implementation of civil projects; and taking part in the economic activities including, import and export. In this regard, the construction and equipping of "Pardis Fanavaran Industrial Park" with an area of 95 hectares in Khorramdareh city in Zanjan province was put on the agenda. After acquiring establishment permit from Zanjan Industrial Parks Organization and creating the necessary infrastructure, such as providing 1.5 million cubic meters of water per year from underground resources, 5 megawatts of electricity and access roads. In 2019, it received the first phase operation license from Zanjan province Industrial Parks Company. It is worth mentioning that, the development plan of another 45 hectares of industrial park is put on the agenda simultaneously with the transfer of industrial parks' lands to the industrial and service investors,. This company has also invested in the construction of small-scale electric-thermal power plant in the above-mentioned industrial park in order to complying with environmental standards, transferring modern technology, providing electricity to the industrial park and helping in providing it to the electricity network , while signing a guaranteed power purchase agreement with Regional Electricity Company in Zanjan Province.



MANAGING DIRECTOR
Mr. Majid Vezvaei

Address: Unit 3 ,No 9, 3rd Ave., Sanjabi St., Mohseni Sq., Mirdamad Blvd, Tehran, Iran.

Telephone: (+98) 21 26709294 - Fax: (+98) 21 26709194

Email: Info@pardispark.com

Website: www.pardispark.com

PROJECT TYPE: Industrial Park Development & Power Plant

Location: Khorramdareh, Zanjan Province, Iran

Area: 95 Hectares

Start Date: 2015

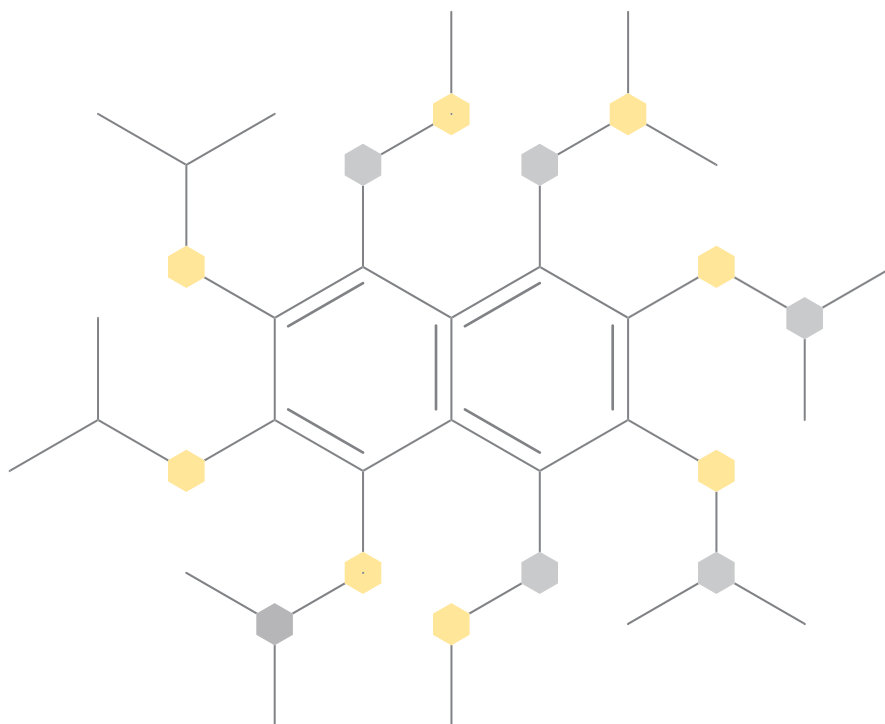
Projected Production Date: 2022

Production Capacity

Product	Nominal Capacity (MW)
Electricity	25
Industrial Park	60 Hectares

Applications

Product	Application
Power	Supply electrical power to Industrial Park



Introduction

PEGA is the first affiliated member of PEDC holding, established in 2009 with the principal goal of producing polymeric products with priority given to polyethylene gas pipe at the first stage.

Portfolio

The plant has been constructed in the Eshtehard Industrial Zone (Alborz Province) in an area of 11,000 square meters.

The two production lines & quality control equipment have been manufactured and imported from reputable European companies (Krauss Maffei & IPT in Germany) for the production of polyethylene gas pipe from 25 to 225 mm complying with national

and international standards whose tests are carried out within our production facilities.

The company has so far produced and supplied thousands of kilometers of polyethylene pipes for gas distribution networks in various sizes to the "Client" (National Iranian Gas Company) and provincial gas companies all throughout the country.

Main Activities

Manufacturer of Gas PE Pipes from 25 to 225 mm

Development plan

Setting up a production line of wide Geomembrane sheets with European technology, which will be exploited at the factory from the first half of 2021.



MANAGING DIRECTOR
Mr. Babak Bankian

Address: Unit 9, 20th Floor, Negar Tower, Above Vanak Sq. Tehran, Iran.
Telephone: (+98) 21 88196607-9 - Fax: (+98) 21 88196610
Email: Info@pega.ir
Website: www.pega.ir



CERTIFICATES

Authorities and organizations who have certified our products and activities are as follows:

- ▶ Operation license by the Ministry of Industry, Mine and Trade for the annual production capacity of 8,000 tons
- ▶ Confirmation Of the National Iranian Gas Company for producing polyethylene gas pipe (Member of vendor list)
- ▶ Standard for producing polyethylene pipes from Iranian National Standards Organization
- ▶ Accreditation certificate from Iranian National Standards Organization
- ▶ ISO 9001:2015 certification for quality management from BQS UK
- ▶ ISO 17025 certification from National Accreditation Center of Iran (NACI)
- ▶ Certificate of registration form Iranian association of PE pipe & ficing producers



Behin Energy Saramad Company

Introduction

Behin Energy Company is a commercial enterprise founded in May 2012 in order to meet growing demand for equipment and petrochemical products, needed on the Iranian and international markets.

The ever-increasing needs of oil and gas sector particularly in petrochemical plants, refineries, power plants, exploration and operation companies has motivated BEC to take its part in these markets and prove itself as a reliable partner.

BEC's qualified team comprises experienced engineers and professional staff committed to quality management system with in-depth knowledge of equipment and chemicals they provide.

Portfolio

- Equipment, Machinery, Catalysts and Chemicals Supply
- Import and export of oil, gas and petrochemical products
 - Supply Chain Management (SCM) of raw materials for chemical and polymer plants
 - Capital investment and partnership in manufacturing

BEC's qualified team comprises experienced engineers and professional staff committed to quality management system with in-depth knowledge of equipment and chemicals they provide. . BEC believes in and is committed to customer orientation, and has always put efforts into customer satisfaction. So, our most visible sign is the satisfaction and loyalty of customers and end users throughout years.

MANAGING DIRECTOR
Mr. Ali Darabi

Address: Unit 2, Floor 4, Mellat building, Opposite Mellat Park, Vali-e-Asr St, Tehran, Iran.
Telephone: (+98) 21 26205772-4 - Fax: (+98) 21 22010853
Email: info@behin.co
Website: www.behin.co

Main Activities

Equipment and petrochemical products trader

■ Equipment

Good knowledge of Iran's markets and recruitment of knowledgeable experts thanks to the high affordability of the company have qualified BEC to enter supply markets.

"Pipe & Tube"

"Fitting"

"Flange"

"Valve"

"Sealing gasket"

"Drilling accessories, wellhead and Xmass"

▶ Catalysts and Chemicals

▶ Hydrogenation

▶ Reforming

▶ Isomerization

▶ NMP

▶ Sulfur Removal

▶ Activated Alumina

▶ Molecular sieve

▶ DMDS

▶ TBC

▶ TEAL

▶ TiCl₄

▶ Activated Carbon

▶ Calcium Stearate

▶ Antioxidants

▶ PHS

▶ Potash

▶ SFS

▶ Rosin

▶ SDS

■ Raw materials

● Polymers

▶ POE

▶ EVA

▶ PP

▶ PA

▶ PMMA

▶ HDPE

▶ LDPE

▶ LLDPE

▶ GPPS

▶ HIPS

▶ EPS

▶ ABS

▶ PET

▶ PVC

■ Raw materials

● Chemicals

▶ DPG

▶ MEG

▶ EEG

▶ DOP



Hengam Qeshm Industrial Mobilization & Development Company (HQIMDC)

Introduction

Hengam Qeshm Industrial Mobilization and Development Co. (HQIMDC) was founded in 2015 for the performance of the following activities:

- Manufacturing industrial components and equipment as well as provision of maintenance services to PEDC's subsidiaries active in oil, gas, petrochemicals and energy sector.
- Engineering and construction of industrial complexes, especially in oil, gas, petrochemicals and power sectors within PEDC.
- Participation with domestic and foreign entities for performance of a/m activities.
- Obtaining financial facilities as required for the promotion of company's activities.
- Trade, including petroleum products and industrial equipment as well as procurement services.

Portfolio

- Implementation of Hara Qeshm Oil Terminal project under a BOT contract with Hara Qeshm Port Construction and Operation Co. The oil terminal is designed to handle the feed and products of PBQ's Heavy Oil Refinery and other nearby refineries, as well as supply of Sea Water to QMC utilities plant.

The main features of the Terminal is as follows:

- Berthing of Crude Oil and Refinery

Product carriers, up to 70,000 DWT on Northern Platform.

- Berthing of Bulk Bitumen carriers, up to 7,000 DWT on Southern Platform.
- Supply of Sea Water to QMC utilities, up to 8000 M3/hr

- Provision of procurement services to Qeshm Movalled (QMC) and Pars Behin Palayesh Naft Qeshm (PBQ) Companies, together with the required financing

MANAGING DIRECTOR
Mr. Mohammad Taghi
Shahab Babayan

Address: Third floor, No. 9, Shahidan Abedi Alley, Shams Tabrizi St., Mir-damad Boulevard, Tehran, Iran.

Telephone: (+98) 21 26409037 - Fax: (+98) 21 22901835

Email: hqimd@pedc.ir





Hara Qeshm Port Construction & Operation Company (P.J.S.)

Introduction

Hara Port Construction & Operation Company (P.J.S.) is one of the subsidiaries of the Pasargad

Energy Development Company, PEDC, owned by the Pasargad Financial Group. A major shareholder is Pasargad Bank, the leading Iranian private bank with a continuous high growth rate. The Company was founded in 2014 with its core businesses including construction and operation of oil terminals to provide the feeds for one of PEDC refinery and transfer the products of this plant and others in Qeshm Island.

Main Activities

- ▶ Construction, Administration and Operation of Oil Terminal and Commercial Ports
- ▶ Including Utilities, Loading/Unloading Arms, Warehouses, Reservoirs and Pipelines.
- ▶ Participation with domestic and foreign real and legal persons in the mentioned activities.
- ▶ Applying for currency / Rial-indexed finance and facilities for the mentioned activities.
- ▶ Authorized commercial transactions.
- ▶ Buy and sale, export and import of petroleum liquid a products and services, other
- ▶ Operational works that are directly and indirectly required and useful for the company to
- ▶ Achieve its goals of implementation

MANAGING DIRECTOR
Mr. Abdolrahman Manavi

Address: Unit 16,4th Floor, No. 9, 3rd Alley, Sanjabi (Behrooz) St., Mirdamad Blvd., Tehran, Iran.
Telephone: (+98) 21 26709861 - Fax: (+98) 21 26709963
Email: haraqeshm@pedc.ir



Portfolio

- Construction of Hara Qeshm Oil Terminal under BOT contract with Hengam Qeshm
- Operation of Hara Qeshm jetty After BOT contract period and transferring from HQIMDCat the end of the concession period.

Introduction of Projects

Hara Qeshm Company is meant to construct a dolphin type oil jetty along northern coasts of Qeshm Island. The main role of the jetty is to boost the import of the crude oil from various resources such as Iranian oil fields, and export of products from neighboring refineries (Pars Behin) such as bitumen, fuel, naphtha. The jetty will be well equipped for 70,000 GT vessels for one side and 7,000 GT vessels for the other side. Incoming and outgoing goods will be delivered to/from sites using various pipelines. Plus, it is going to supply the water for Qeshm Movallad and Pars Behin as well.

Construction Parts

- Rubble mound access road approximately 1,300 m long.
- Access Bridge, 575m long.
- Mooring and Breasting dolphin / Pump house, fire fitting, control room and operation platform
- Top deck and offshore mechanical and electrical facilities.
- Office building and marine care tower, 750^{m2}
- Fire-fighting station, 180^{m2}

List of Projects

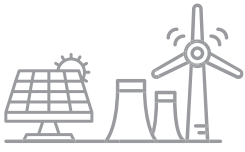
Contract Party	Type of Contract	Scope of work	Status
Hara Qeshm Oil Terminal Construction & Operation Company (PJSC)	BOT	Implementation of Hara Qeshm Oil Terminal project under a BOT contract with Hara Qeshm Port Construction and Operation Co.	Construction Phase

03



Power&Utility Division

تشرکت گسترش انرژی پاسارگاد
PASARGAD ENERGY DEVELOPMENT CO.



Power & Utility Division

Introduction

The power and utilities section of the company started work concurrently with the establishment of PEDC in 2008. In light of government plans and policies on bolstering the private sector and reducing state control, it co-purchased Khoy and Urmia combined cycle power plants, and fully acquired Shariati power plant via subsidiaries and affiliated companies to win a significant share in electricity generation and supply in the country. Currently, thermal power plants with a rated capacity of 2000 MW are operational while power stations with a rated capacity of 1700 MW are either planned to be developed or under construction

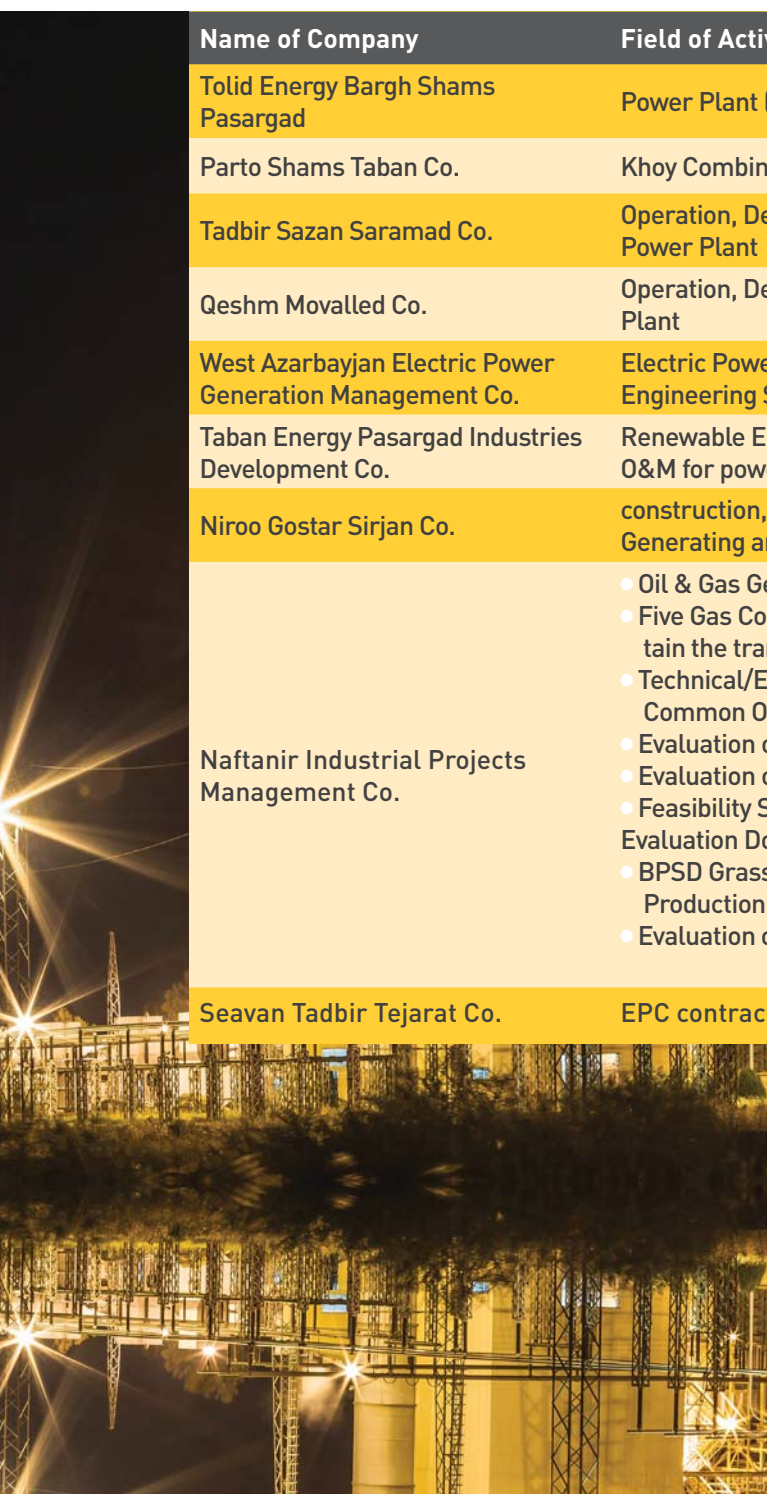
Another field of activity pertains to renewables and utilities which include water and steam supply for petrochemical plants and refineries, power generation from renewable energies like wind, solar and hydro power plants. Projects are under construction for water and steam supply to the refinery and construction of 62MW wind, solar and hydro power plants.

Investment in and operating water and gas pipelines constitutes another field of activity in this section. Currently, a BOT-based gas pipeline to carry gas from Iran to Iraq is under construction.

Within the framework of PEDC policies, this section addresses environmental concerns and takes into consideration the expectations and demands of customers and other beneficiaries.

POWER & UTILITY SUBSIDIARIES

Name of Company	Field of Activity
Tolid Energy Bargh Shams Pasargad	Power Plant (Shariati Power Plant)
Parto Shams Taban Co.	Khoy Combined Cycle Power Plant
Tadbir Sazan Saramad Co.	Operation, Development and Construction of Urmia Combined Cycle Power Plant
Qeshm Movalled Co.	Operation, Development and Construction of Qeshm Movalled Power Plant
West Azarbayjan Electric Power Generation Management Co.	Electric Power Generation, Operation, Maintenance, Technical and Engineering Services of Power Plants.
Taban Energy Pasargad Industries Development Co.	Renewable Energy Power Plants Distributed Power Generation O&M for power plants and gas pipelines
Niroo Gostar Sirjan Co.	construction, Operation and Development of Sirjan Power Plants Generating and Selling Electricity
Naftanir Industrial Projects Management Co.	• Oil & Gas General Contractor. • Five Gas Compressor Stations installed along the pipeline to maintain the transportation pressure. • Technical/Economical Evaluations (Case Studies) of Esfandiar Common Offshore Oil Field through Buy-Back & EPCF Models. • Evaluation of Onshore East Assaluyeh Oilfield. • Evaluation of Onshore Band-E.Karkheh Oilfield. • Feasibility Study of 120.000 BPSD Gachsaran Oil Refinery Project. • Evaluation Documents Preparation & Site Selection of 35.000 BPSD Grass Roots Heavy Crude Oil Qeshm Refinery for Bitumens Production. • Evaluation of 450 MT/D LNG Plant Installation at Qeshm.
Seavan Tadbir Tejarat Co.	EPC contractor in oil, Gas and Power industries

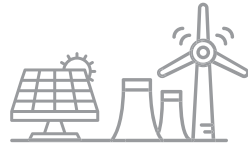


Main Activities

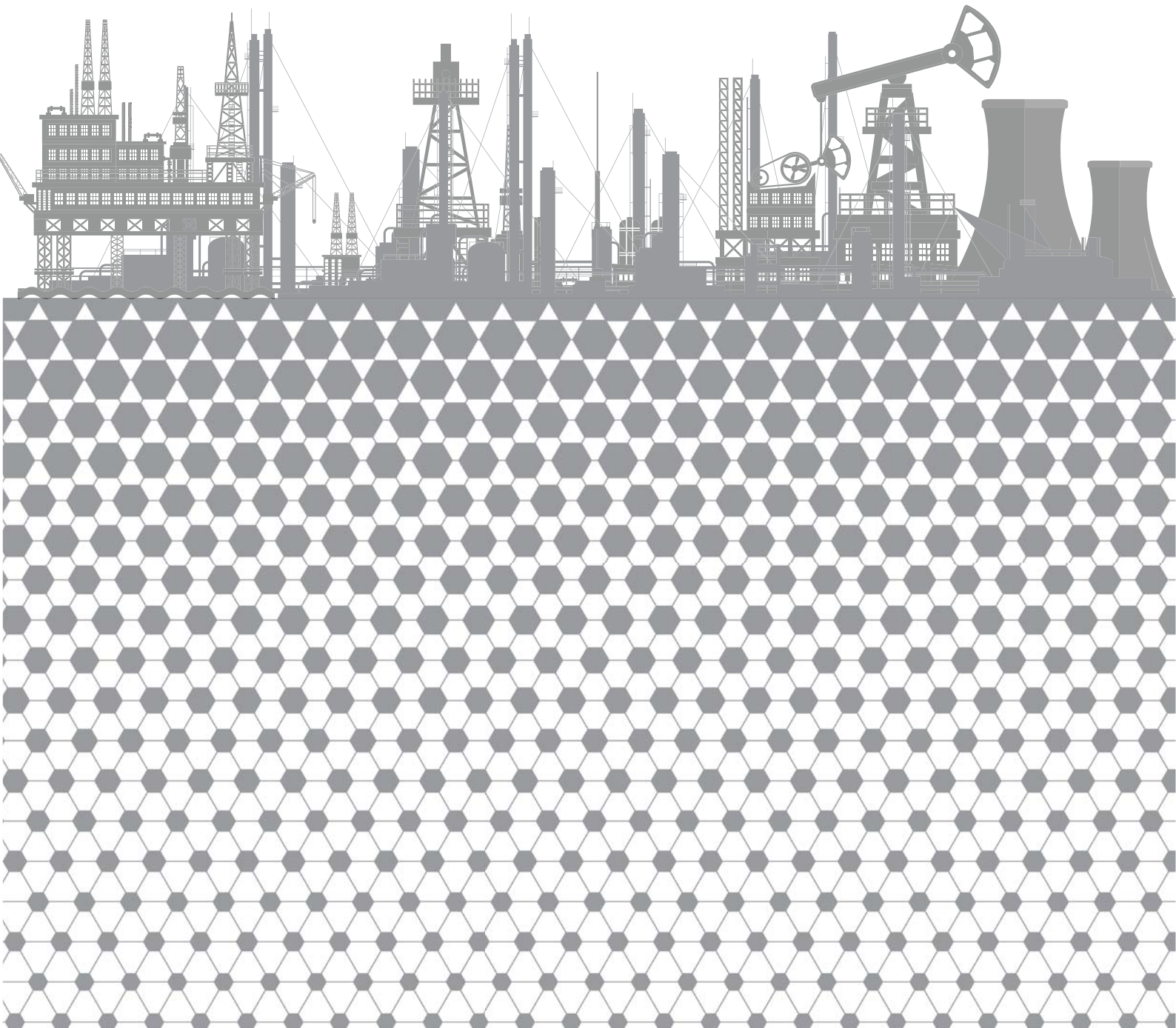
Power Generation, Utilities and Renewable Energy in which the fundamental of PEDC activities is approaching sustainable development with an emphasis on the environment.

List of Projects

Title of Project	Capacity	Responsible	Scope of work	Status
IGAT6 (client: Iranian Gas Engineering and Development Co)		Naftanir	Construction of 595 Km of Pipeline with: 5 Gas Compressor Stations, 5 Pressure Control Stations, metering Stations	The project progress rate is 99,4%
IGAT6 O&M		Taban Energy (PEDC)	O&M and procurement in order to supply the procedure	Ongoing
Pasargad Qeshm Power Plant (Phase 1)	70 Mw	Qeshm Movallad Co.	Power Generation	Under Operation
Pasargad Qeshm Combined Cycle Power Plant (Phase2)	320MW	Qeshm Movallad Co.	Power Generation	The project progress rate is 33,98%
Pasargad Qeshm Utility Production Plant	230 T/H(Steam) 16000M ³ /D (Water)	Qeshm Movallad Co.	Steam and Water Generation	Ongoing
Urmia Combined Cycle Power Plant (Phase 1-GAS sec.) (37.5% participant)	964MW	Tadbirsazan Saramad Co. (affiliated company)	Power Generation	Under Operation
Urmia Combined Cycle Power Plant (Phase 2-Steam sec.) (37.5% participant)	480MW	Tadbirsazan Saramad Co. (affiliated company)	Power Generation	Ongoing
Shariati Combined cycle power plant	501.8MW	Tabesh Co.	Power generation	Under Operation
Shariati power plant (DG)	3MW	Tabesh Co.	Power generation	Under Operation
Damghan Solar Farm	10MW	Taban Energy Co.	Power Generation	Ongoing
Gorgan CHP Power Plant	25 MW	Taban Energy Co.	Power Generation	Ongoing
Khaf wind farm	50 MW	Taban Energy Co.	Power generation	Ongoing
Sirjan Power Plant	22MW	Niroo Gostar Sirjan Co.	Power generation	Ongoing
Khoy combined cycle power plant (32% participant)	350MW	Parto Shams Taban	Power generation	Under Operation



Power & Utility Division





Tolid Energy Bargh Shams Pasargad Company (TABESH)

Introduction

Andisheh Sazan Behin Saramad was established on August 29, 2011 in order to run Shariati Power Plant in the northeastern city of Mashhad. In 2016 it was renamed Tolid Energy Bargh Shams Pasargad Electrical Energy Company (TABESH) .

Tabesh Currently owns six F5 gas units with a capacity of 25 MW and a combined cycle block which incorporates two F9 gas units with a capacity of 123.4 MW and a Siemens steam unit with a capacity of 105 MW.

in addition, nearly 3MW DG has been added to power plant's generation capacity.

Necessary measures are under way for the development of the power plant to produce 150MW of electricity.

Main Activities

- ▶ Power Plant (Shariati Power Plant)
- ▶ Management and supervision of power plant operation
- ▶ Providing electrical energy for Wholesale Market and Large Consumers under bilateral agreements, Participating in Energy Exchange
- ▶ Participate in investing and purchasing existing power plants

MANAGING DIRECTOR

Mr. Seyed Hossein
AbdolKhaleghzadeh

Address: No. 15, Taban ave., South Naft, Mirdamad St., Tehran, Iran.
Telephone: (+98) 21 26401812 - 51-3 3963021 - Fax: (+98) 51-3 3961605
Email: tabesh.shariati@pedc.ir

Power Plant Specification

- Area: 33 Hectares

Nominal Production Capacity:

- (At ISO condition): 504.8 MW
- Consisting Hitachi gas turbine: 6x25 MW

One block consisting of:

- GE —F9 gas turbine: 2x 123.4 MW
- Siemens steam turbine: 1x105 MW
- Main Fuel: Natural Gas
- Backup Fuel: Gas Oil

The company, totally owned by PEDC, has acquired the Shariati Power Plant in 2011. The company has since been able to supply power to the grid via its 132 KV substations.





**Parto Shams Taban
Power Generation Co**

Parto Shams Taban Company

Introduction

In 2010, Pasargad Development Co., Mah Taab Gostar Co. and Energy Gostar Jam Co., took part in a licensing round held for the Khoy Combined Cycle Power Plant. Their partnership helped them win the tender bid. After that, Parto Shams Taban Power Production Company was registered in order to manage and run the Khoy Combined Cycle Power Plant.

The electricity Power generated by this power plant , injects to the Grid via 132 KV , 230 KV and 400 substations.

Power Plant Specifications:

- Capacity under ISO conditions: 350 MW
- Type: Combined cycle
- Number of units: two units of F9 gas turbines and one unit of the steam turbine, as one block of combined cycle
- The capacity of each unit: Gas unit 123.5 MW, and steam unit 103 MW
- Turbine type: Gas turbine GE F9 – Alstom, Steam turbine Siemens
- Main fuel: Natural gas
- Backup fuel: Gas-oil
- The efficiency of the combined cycle: 48%
- Availability: minimum 90%

Main Activities

management, operation, maintenance, selling and exporting electricity and development of khoy combined cycle plant.

study, design and implementation of renewable energy projects including solar power plants.

management, operation, maintenance, selling and exporting electricity of other power plants in management contracts.

contractor for electricity market of other power plants.

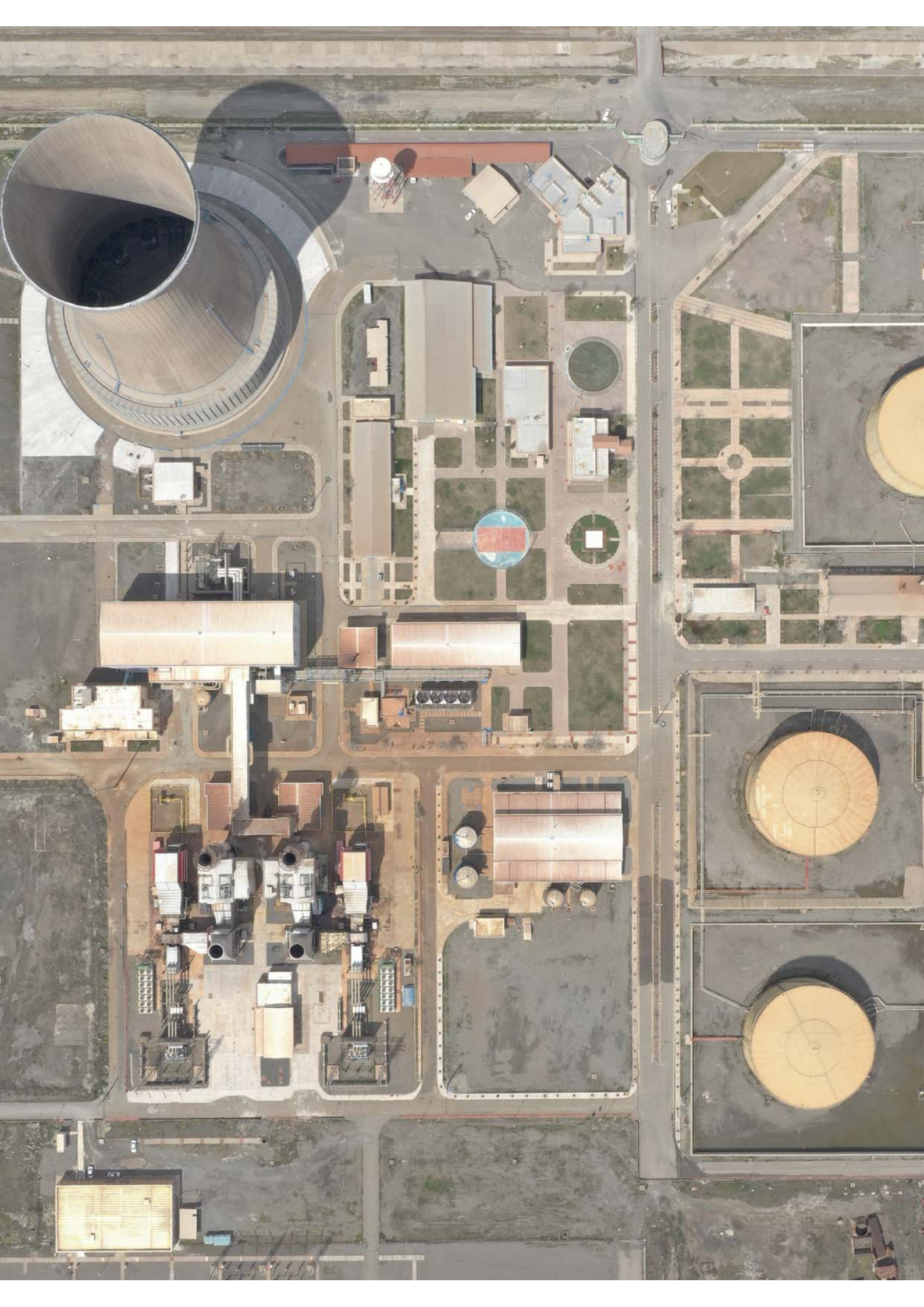
MANAGING DIRECTOR
Mr. Gholamreza Atabaki

Address: No 9, 11th Alley, Sheykh Bahaei St., Tehran, Iran.

Telephone: (+98) 21 88047026 - Fax: (+98) 21 88046994

Email: atabaki.ap@pedc.ir

Website: www.parto-shams.com





Tadbir Sazan Saramad Company

Introduction

In 2011, Tadbirsazan Saramad Company established by PEDC, Mahtab Gostar, and Omid Taban Hour Company, as its main shareholders, to participate in a tender published by Iranian Privatization Organization. Tadbirsazan Saramad now own Urmia Combined Cycle Power Plant, Operating at a total capacity of 1124 MW. The power plants has always been actively participating in providing availability, energy, and ancillary services at market prices set by the system manager (i.e., Iran Grid Management Company).

MANAGING DIRECTOR
Mr. Alireza Sadrabadi

Address: No. 15, Taban ave., South Naft, Mirdamad St., Tehran, Iran.

Telephone: (+98) 21 22257809 - Fax: (+98) 21 26401812 - 13

Email: info@tadbirsazansaramad.com

Website: www.tadbirsazansaramad.com



Currently, the company is installing 2 remained units of the steam section of the Urmia combined cycle power plant. The first steam unit with 160 MW capacity was synchronized with the national electricity network in 2020. By the project completion, three combined cycle power generation blocks with more than 1444 MW capacity and about 48% efficiency will be available.

Main Activities

Active Participation in market sales such as wholesale energy market, energy exchange market, and bilateral contract.

Managing and supervising the operation and maintenance of Urmieh Combined Cycle power plant.

Power Plant Specification

Nominal Production Capacity:

- (At ISO condition): 1124 MW

Number of Units:

- Tuga Gas Turbine (V94-2 Ver3): 3*157.5 MW
- Tuga Gas Turbine (V94-2 Ver3) Upgraded: 1*167.5 MW
- Tuga Gas Turbine (V94-2 Ver5): 2*162 MW
- Tuga Steam Turbine (E Type): 1*160 MW
- Main Fuel: Natural Gas
- Backup Fuel: Gas Oil





Qeshm Movalled Company

Introduction

Qeshm Movalled Company was established to provide electrical energy to the units being installed in the Qeshm Free Zone in Hormozgan Province. It particularly supplies water, steam and electricity to the Qeshm refinery which is under construction in proximity of the Company.

Construction of the project has been under way in two phases since 2012 and PEDC (Pasargad Energy).

Main Activities

Operation, Development and Construction of Qeshm Movalled Power Plant

Finished and in Commercial Operation Facilities:

- (70 MW Gas Power Plant (including 3 GTGs)
- 230 kV Electric Substation
- 230 kV transmission line for connecting to National Grid
- 30.000 m³ Gas Filtration and Pressure Reduction Station
- 2.2 km 16" gas pipeline
- All Civil work, BOP and Auxiliaries for Gas Power Plant
- Central Control building

MANAGING DIRECTOR
Mr. Seyed Hassan Maddahi

Address: No.139, Pasargad Building, Mirdamad Blvd, Tehran, Iran.
Telephone: (+98) 21 26401741-43 - Fax: (+98) 21 26401699
Email: Qeshmmovalled@pedc.ir





West Azarbayjan Electric Power Generation Management Company

Introduction

The West Azerbaijan Power Generation Management (WAPGM) Company was founded in 1977 for the purpose of providing and operating and Maintenance (O&M) service of power plant, refineries petrochemical complexes and other industrial units. It was registered under No. 3986 in Urmiah . WAPGM was officially launched after undertaking O&M of Urmia's Gas Power Plant and Khoy's Combined Cycle Power Plant in 1997. Urmiah's Combined Cycle Power Plant was commenced in June 2007. Moreover, the O&M of Shobad Power Plant has been handled by WAPGM in 2014. The nominal production capacity of the company stands at 1847 MW.

Main Activities

Electric Power Generation, Operation, Maintenance, Technical and Engineering Services of Power Plants



MANAGING DIRECTOR
Mr. Ebrahim Yakani Motlagh

Address: No 41, Across The Mellat Park , First Valfajr Blvd , Urmia , P.O. Box : 1369, Iran.

Telephone: (+98) 443 3374023-7 Fax: (+98) 443 3362255

Email: info@azarw-ppt.ir Website: www.azarw-ppt.ir





Taban Energy Pasargad Industries Development Company

Introduction

The company was acquired by PEDC (Pasargad Energy Development Company) in 2015 and has since been responsible for B.O.O and B.O.T investment in the following sectors:

Renewable Energy Power Plants:

- Solar Farm Power Plant
- Wind Farm Power Plant
- Hydroelectric Power Plant

Distributed Power Generation:

- CHP Power Plant
- DG Power Plant

We have recently developed three projects to invest in:

- 25 MW CHP Power Plant near Gorgan City
- 10 MW Solar Farm Power Plant near Semnan Province
- 50 MW Wind Farm Power Plant near Khaf City

Based on the company's past experiences, we also undertake the Operation & Maintenance of:

- Power Plants
- Gas Pipeline
- Gas Compressor Stations.

MANAGING DIRECTOR
Mr. Yaser Mirzaei

Address: No 244, Dastgerdi St, Shariati Ave., Tehran, Iran.
Telephone: (+98) 21 26406101-2 - Fax: (+98) 21 26406100
Email: infotaban@pedc.ir



We have been awarded contracts for Operation & Maintenance of:

- 320 MW Semnan Gas Power Plant
- 70 MW Qeshm Gas Power Plant
- 600 Kilometer of 48 and 56 inch pipeline with ancillary equipment
- 5 gas compressor stations, each one consists of four 25 MW Gas Turbo-Compressor units



Niroo Gostar Sirjan Company

Introduction

Niroo Gostar Sirjan Co. was registered in Sirjan in 2009. It is based in the Sirjan Special Economic Zone in Kerman Province in southern Iran.

Main Activities

- ▶ Construction, Operation and Development of Sirjan Power plant
- ▶ Generating and Selling Electricity

Two 2MW-units became operational in August 2016. Other eleven 2MW-units are envisaged to be built.

Power Plant Specification:

- Plant Capacity: 26 MW
- Number of Gas Engines: 13X2 MW
- Gas Engine Type: MTU
- project Completion Date: 2016

in line with the protection of the environment, reducing the power transmission loss and increasing efficiency, the Iranian government encourages private investors in the energy sector to establish DG power plants with higher production performance. Such encouragement is offered in the form of purchasing the produced power at a premium rate.

The generated power will be transmitted to the grid and will be purchased by the government within the framework of guaranteed power purchase agreement.

MANAGING DIRECTOR
Mr. Maziar Zahiri Hashemi

Address: No. 15, Taban Ave, South Naft St., Mirdamad St., Tehran, Iran
Telephone: (+98) 21 26401812-13 - Fax: (+98) 21 26401812-13
Email: mzahiri@pedc.ir





Naftanir Industrial Projects Management Company

Introduction

Naftanir Industrial Projects Management Company is a subsidiary of Pasargad Energy Development Company which was established in 2010.

Naftanir Company main activities are: Execution of Oil & Gas, Petrochemical and Power Plant Projects.

Exporting Gas Pipeline Installation from Iran to Iraq is the biggest Project ever done in Islamic Republic of Iran which was Financed 100% by Private Investor using BOT (Built, Operate and Transfer) Contract by Naftanir Company with an Investment of More than 2,280,000,000 USD. The Project started from 13th July, 2015 and finalized in 1st Feb, 2016 and Gas Exporting Operation to Iraq started from 23rd Sep, 2017.

The Project Consists of Two Parts:

Installation of 595 Km of Pipelines-One Metering Station and 5 Gas Compressor Stations

Exporting Gas Pipeline which starts from South Pars Gas Field in Assaluyeh will pass through 5 Provinces of Bushehr, Khuzestan, Lorestan, Ilam and Kermanshah. The Gas will be transferred while being compressed at 5 Compressor Stations along the Pipeline Route in order to be exported to Iraq from Shalamchah and Naftshahr Borders and some is also transferred to the West of the country for domestic use.

The Total Volume of exporting Gas from Shalamchah Station alone was n 8 billion and 2 hundred Million Cubic Meters until 21th Nov,2020 considering Commissioned Temporarily Metering Equipment in 2017 and Commissioned Permanent Metering

Equipment in 2018.

The Total Volume of exporting Gas from Naftshahr Station was More than n 16 billion Cubic Meters until 21th Nov,2020.

The capability of this Project to export Gas to Iraq is about 70 Million Cubic Meters per day considering all 5 Gas Compressor Stations to be in operation and that will generate an estimated income of more than 4 Billion USD Annually for the Country.

It is the first time that Naftanir Industrial Projects Management Company as the only private Company which has been given the responsibility of the operation of the Pipeline and the Compressor Stations for the duration of 3 years. The Company has hired 1200 local Engineers / Technicians and also allocated 3 Sites in Ahwaz, Poldokhtar and Kermanshah in order to do the Operation duties as per Iranian Gas Company Standards.

The Pipeline and the Metering Station have been in Operation for three years and the 5 Gas Compressor Stations for two years.

MANAGING DIRECTOR
Mr. Karim Tafreshi

Address: 5th Floor, No9, 3rd Alley, Sanjabi st, Madar sq, Mirdamad Blvd, Tehran, Iran.

Telephone: (+98) 21 26709603 - Fax: (+98) 21 26709884

Email: info@naftanir.com

Website: www.naftanir.com

Main Activities

- ▶ Upstream and Downstream Projects.
- ▶ Execution of Projects as Buy-Back, BOT or EPCF.
- ▶ Execution of Projects as Management Contracts (MC), General Contractor (GC).
- ▶ Conceptual Studies, Technical / Economical Evaluation of the Oil & Gas and Petrochemical Projects.
- ▶ Basic and Detail Engineering for Oil & Gas and Petrochemical Projects.

Naftanir Executed Projects:

- Installation of Gas Exporting Pipeline from Iran to Iraq
- Evaluation of the location of the Plant, Preparation of the Basic Documents, Choosing Consulting Engineer and Management Contract (MC), Participation in tendering Process for the Installation of Bitumen Production Plant in Qeshm Project.
- Engineering Consultation of the Part of the Installation of Butacom Petrochemical Units Project.
- Primary Basic Studies of the Project Management for Petrochemical Complex Utilities in Zanjan Province.

IGAT6

construction of 595 kilometers of gas pipeline





Introduction

Seavan Tadbir Tejarat Co. is one of the subsidiaries of the Pasargad Energy Development Company (PEDC) and works as an oil and gas industry contractor and oil and refinery products trader. Its goal is to firstly participate in domestic oil and gas major tenders as a contractor and also, trade fuel products in the Middle East region. In the future steps, to enter the global markets.

Portfolio

Relaying on our ability in oil & gas industry, board of directors decided to enter this industry as an EPC contractor in year 2016. The company succeeded in a tender and now we are working on the project. The project is an EPC contract which contains Emergency Shut Down (ESD), Distributed Control System (DCS), Fire & Gas detection system, Power Management System (PMS) of 5 compressor stations of IGAT-6 (Iran GAS TRUNK PIPELINE) and Telecom/SCADA of Ahwaz- Khoramshahr pipeline. Our vision is to become one of the top and well-known Contractors for the local and international clients in the target markets, and the preferred working choice of experts.

EPC Projects

- EPC of Electrical & Instrument and F&G system for Hara Qeshm Oil Terminal Project
- Managing Contract of 10MW solar power plant in Damqan
- Dismantling, Installation and Commissioning of 2.4MW Distributed Generation power plant in Tehran
- Installation and Commissioning of Telecom Systems for Deylam and Ahwaz Gas Compressor Stations

Oil & Refinery Products Trading

Iran is located in a region that is the center of the global energy market. Also, around Iran, the countries that produce and consume oil products have provided the space for trade in these products. Major producing countries active in this region are Iran, Iraq, Turkmenistan, UAE and Azerbaijan. Due to the independence of the Iraqi Kurdistan from the central government and their willingness to directly sell petroleum products, Iran is considered as the best route to supply Kurdistan products to global markets. According to the countries and regions mentioned, one of the main activities of the company since its foundation has been to buy products from the producing countries, logistic management, and sell them at destination.

MANAGING DIRECTOR
Mr. Ali Alizadeh Kashani

Address: Unit 2, 3rd floor, No. 1, Hafez Alley, Kolahdouz St., Tehran, Iran

Telephone: (+98) 21 22548095 - Fax: (+98) 21 22595965

Email: info@seavan.net

Website: www.seavan.net

Main Activities

Subject	Description
EPC Projects in Oil & Gas Industry	- EPC of Electrical & Instrument and F&G system for Hara Qeshm Oil Terminal Project - Managing Contract of 10MW solar power plant in Damqan - Dismantling, Installation and Commissioning of 2.4MW Distributed Generation power plant in Tehran - Installation and Commissioning of Telecom Systems for Deylam and Ahwaz Gas Compressor Stations
Products Traded	Naphtha Fuel Oil Gasoil Base Oil Jet fuel Bitumen
Logistics Experiences	Purchasing LPG Carrier Management of 75,000 cubic meters of Strage Tanks
Future Plans	Top domestic contractor in Oil and Gas Field Construction of the tank farms Purchase of vessel Buy tanker trunks Entrance to the Omani market, India, Singapore and Africa





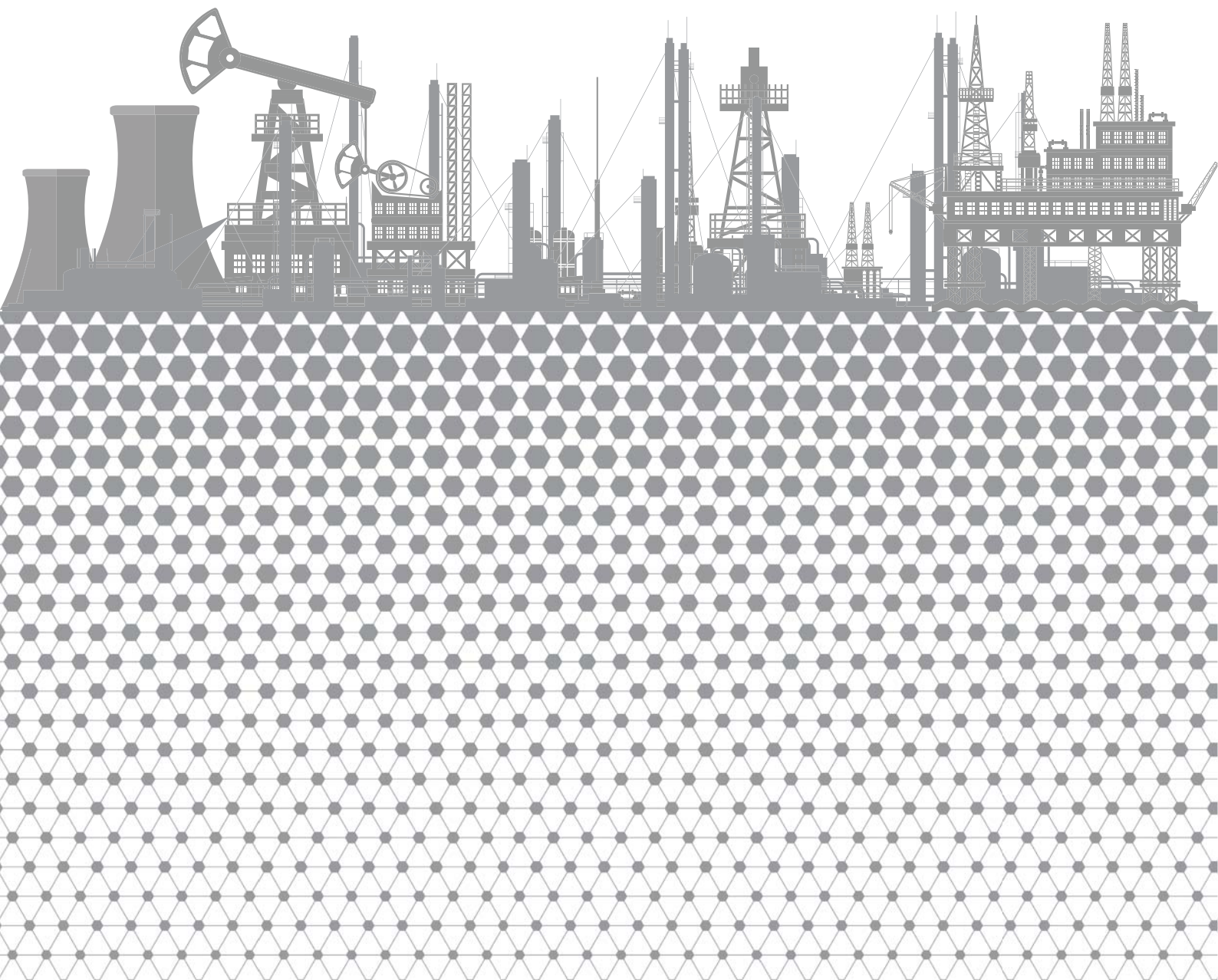
04



Knowledge Management Department

شرکت گسترش انرژی پاسارگاد
PASARGAD ENERGY DEVELOPMENT CO.

Knowledge Management Department



Pasargad Energy Development, a leading group in the Iranian energy industry as the first company, was honored to be certified by ISO 30401 from Iran TUVNORD certificate body.

This is an important step towards developing the infrastructure needed for strategic intelligence and achieving the position of group as partner of choice in Iran. We believe that knowledge, as the most important core competency, will be our competitive advantage that will ensure sustainable growth and development and value creation for our shareholders.

Knowledge Management Master Plan (KMMP) is a six stage procedure and is implemented based on the most recent and reliable KM theories. After knowledge audit in an organization by use of APO questionnaire, effective strategies for the organization are identified and adopted in 3 principals of KM, Culture, Structure and Technology. One of the main threat that identified in the first step of risk identification was losing the tacit knowledge of senior expert after quit the company and the response action to this risk is set the series of knowledge acquisition meeting to discover and extraction of knowledge and share its. Another risk identified was to take, and share the project knowledge in 10 discipline of PMBOK knowledge area. The planned response to this risk was extraction of lessons learned of IGAT6 project and record, save and share theirs in the enterprise and update the OPAs of company to avoid repeating the errors in future projects.





PASARGAD ENERGY DEVELOPMENT COMPANY , PIONEER IN DEVELOPING ENERGY STARTUP ECOSYSTEM

The Pasargad Energy Development Company (PEDC), as a pioneer and integrated player in the value chain of energy and petrochemical in Iran and the region, actively, responsibly and sustainably invests and manages a diversified portfolio of products and services in the form of projects, assets, transmission and distribution networks, refineries, petrochemical industries and power plants.

One of the strategy's pillars of our company is to "create strategic partnerships" with the main players of the industry in order to build a better, stronger, more stable, and higher-performing corporation.

Act as a social responsible company by providing energy to develop the country's industry is our fundamental values, which we through it make value to our stakeholders.

With innovative and transformative approach, Now is the time to shape the future of Energy sector by investing in energy tech startups of Upstream, Downstream, Energy Efficiency, Renewable Energy, etc. Founded by PEDC and its partners (OIIE and DANA energy co.) in early 2019, "Apadana Ventures" is the first VC firm in Iran which is completely dedicated to investing in tech startups of the energy value chain. Financial resources, deep knowledge of the industry and long-standing network of strategic partners, places "Apadana Ventures" in a standout position comparing with few competitors of its kind in the region. We are committed to developing the internal energy startups ecosystem, with an admirable effort to build an energy-related business, leaving a legacy for tomorrow.

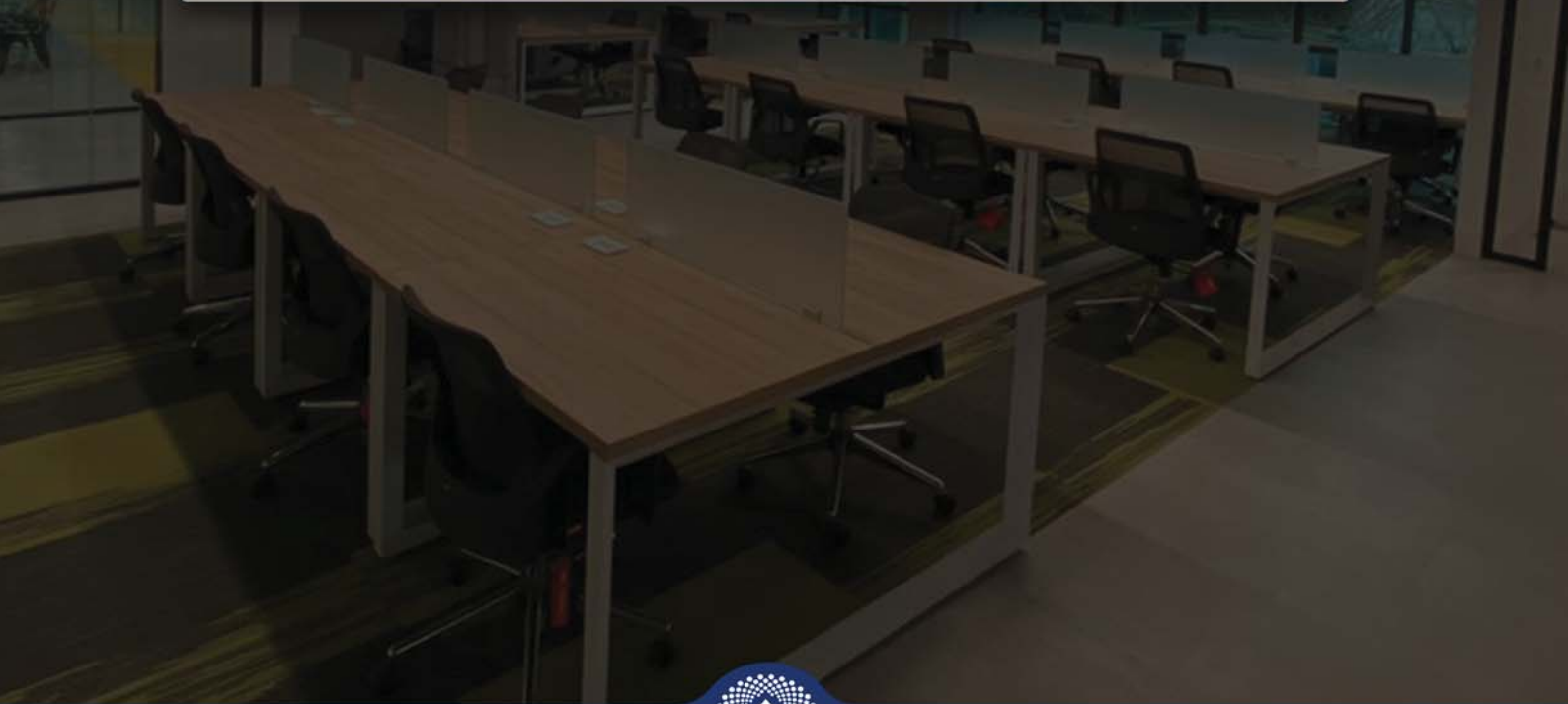
MANAGING DIRECTOR
Mr. Mahdi Gholamlou

Address: No. 81, Taheri ave., Valiasr St., In front of the Jamejam, Tehran, Iran.

Telephone: (+98) 21 22653156 - Fax: (+98) 21 26290640

Email: info@apadanavc.com

Website: www.apadanavc.com



PEDC investment in innovative future.

The “Energic Innovation Center” project is now ready to operate. Funded by Pasargad Energy Development Co. (PEDC), Dana Energy, Oil Industry Investment Company (OLIC), and established by Apadana VC in Amirkabir university of technology (AUT), Energic will be the heart of devising and developing technological innovation in Iran’s energy industry.

Energic is a dynamic, modern and friendly space for the gathering of those who do not settle for the current conditions and search for new answers to the long-lasting problems in the energy industry. creative persons who have the courage and motivation to explore new paths for finding the answers of industry problems, and cicerone coaches and advisors whom with their knowledge and experience will guide these innovators is the main customer of this centre.

Apart from providing a workspace, Energic can harmonize these sides; Big corporations can bring up their challenges and problems in Energic, and entrepreneurs, faced with practical questions, will be assured of a secure market for their products and services. Through Energic’s vibrant network, big corporations can easily access talents and innovative solutions, and innovators can easily access experienced coaches, training workshops, and Venture Capitals. Through implementing creative methods, we aimed to play our part in forming and realizing a promising vision in our country’s energy industry, and in this path, cherish collaborations from all enthusiastic activists of this industry. Energic welcomes those eager to cooperate in this new front with open arms.

MANAGING DIRECTOR
Mr. Ruzbeh Shahrokhi

Address: Faculty of Petroleum Engineering., Amirkabir University of Technology., Valiasr St., Tehran, Iran.

Telephone: (+98) 21 66460043 - **Fax:** (+98) 21 66460043

Website: www.irenergic.ir **Email:** info@irenergic.ir

CONTACTS

Contact information

Our contacts for collaboration
opportunities in Iran

شرکت گسترش انرژی پاسارگاد
PASARGAD ENERGY DEVELOPMENT CO.

CONTACT INFORMATIONS

Company	Field of Activity	Telephone	Fax	Email
Upstream Division				
Pasargad Exploration & Production	Exploration & Production (E&P)	(+98) 2171743000	(+98) 2171743000	PR@pasargadep.com
Ostovan Kish Drilling Co (OKDC)	Implement and Manage Offshore and Onshore Drilling Operations	(+98) 21 26401668	(+98) 21 26401672	info@ostovan.com
Petro Danial Kish Company (PDK)	Oil and Gas Drilling Technical Services Provider	(+98) 21 26401766	(+98) 21 26401758	marketing@petrodanial.com
Petro Kariz Omid Kish (PKOK)	Directional Drilling Service Provider	(+98) 21 26410266	(+98) 21 26410191	info@petrokariz.com
Engineering Support Technology Development Co. (ESTD)	Engineering Services and Developing Computational Models	(+98) 21 88884437	(+98) 21 88788649	info@estd.ir
Tejarat Pasargad Co.	Procurement of Industrial Equipment	(+98) 21 26709583	(+98) 21 26709189	info@tejaratp.com
Pezhvak Energy Co.	Engineering and Operation	(+98) 2126709301	(+98) 2126401787	info@pe-co.ir
Downstream Division				
Sina Chemical Industry Development Co.	Implementation of Petrochemical Complex (Polyolefin Complex)	(+98) 21 26709607	(+98) 21 26709505	scid@pedc.ir
Soroush Energy Paydar Co.	Implementation of Petrochemical Complex (Parsian Petrochemical Park)	(+98) 21 82172400-4	(+98) 21 82172400-4	sepid@pedc.ir
Romak Energy Saramad Co.	Implementation of Petrochemical Complex (Acrylate Chain Complex)	(+98) 21 26709410	(+98) 21 26709611	romakenergy@pedc.ir
Fajr Kerman Petrochemical Co.	Implementation of Petrochemical Complex (Elastomer Complex)	(+98) 21 26709122	(+98) 21 26709103	info@fkpc.co.ir
Pars Behin Palayesh Qeshm Oil Co.	Implementation of Refinery (Heavy Crude Oil Refinery)	(+98) 21 26709416-17	(+98) 21 26709726	info@parsbehin.com
Javid Energy Parto Co.	Implementation of Refinery (Siraf Condensate Refinery)	(+98) 21 26403850-55	(+98) 21 26403856	info@jepco.co
Pardis Fanavaran Alborz Zanjan Co.	Development of Industrial Park and Electrical Energy Production	(+98) 21 26709294	(+98) 21 26709194	info@pardispark.com
Polyethylene Gostaran Alborz Co	Manufacturer of Gas PE Pipes from 25 to 225 mm	(+98) 21 881966 07	(+98) 21 88196610	info@pega.ir

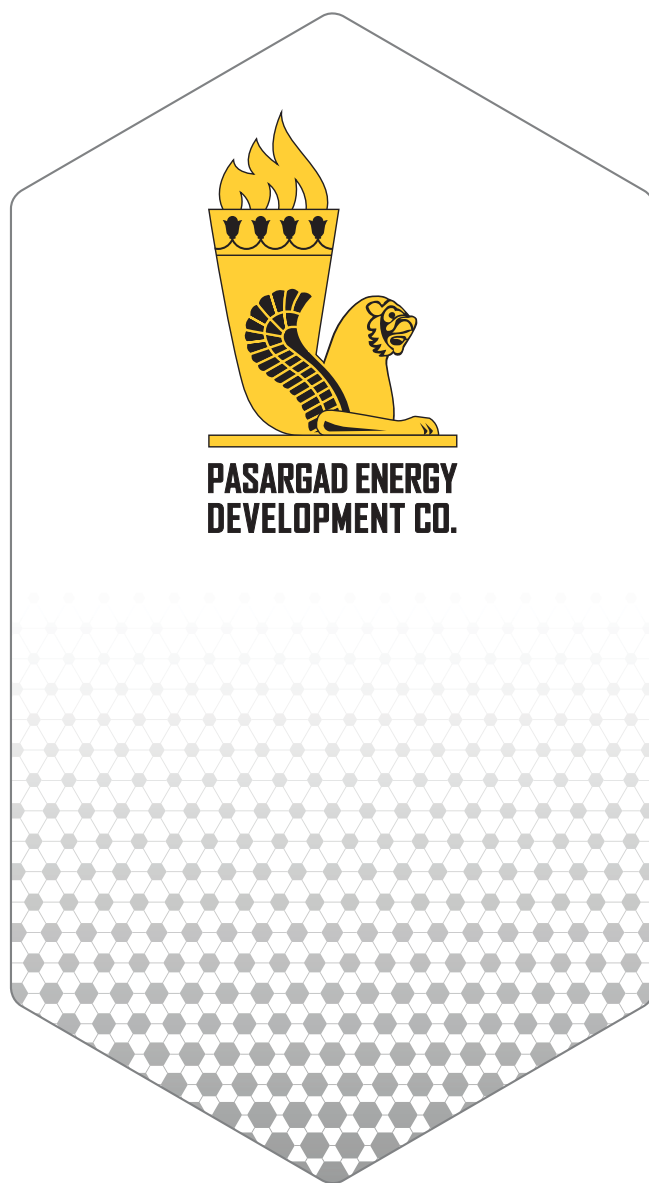
Company	Field of Activity	Telephone	Fax	Email
Behin Energy Sarmad Co.	Trading Equipment & Petrochemicals	(+98) 21 26205772-4	(+98) 21 22010853	info@behin.co
Hengam Qeshm Industrial Mobilization and Development Co.	Procurement, Industrial Equipment & Financer of Hara Qeshm Jetty	(+98) 21 26409037	(+98) 21 22901835	hqimdm@pedc.ir
Hara Qeshm Port Construction & Operation Co.	Supervision of Hara Qeshm jetty	(+98) 21 26709861	(+98) 21 26709963	haraqeshm@pedc.ir

Power and Utility Division

Tolid Energy Bargh Shams Pasargad	Power Plant (Shariati Power Plant)	(+98) 21 51 33963021	(+98) 21 51 33961605	tabesh.shariati@pedc.ir
Parto Shams Taban Co.	Khoy Combined Cycle Power Plant	(+98) 21 88047026	(+98) 21 88046994	atabaki.ap@pedc.ir
Tadbir Sazan Saramad Co.	Operation, Development and Construction of Uromieh Combined Cycle Power Plant	(+98) 21 22257809	(+98) 21 26401812-13	info@tadbirsazansaramad.com
Qeshm Movalled Co.	Operation, Development and Construction of Qeshm Movalled Power Plant	(+98) 21 26401741-43	(+98) 21 26401699	Qeshmmovalled@pedc.ir
West Azarbayjan Electric Power Generation Management Co.	Electric Power Generation, Operation, Maintenance, Technical and Engineering Services of Power Plants.	(+98) 443 3374023	(+98) 443 3362255	info@azarw-ppt.ir
Taban Energy Pasargad Industries Development Co.	Renewable Energy Power Plants Distributed Power Generation	(+98) 21 26406101-2	(+98) 21 26406100	infotaban@pedc.ir
Niroo Gostar Sirjan Co.	Building and operating Power Plants Generating and Selling Electricity	(+98) 21 26401812-13	(+98) 21 26401812-13	ngs@pedc.ir
Naftanir Industrial Projects Management Co.	Oil & Gas General Contractor	(+98) 21 26709603	(+98) 21 26709884	info@naftanir.com
Seavan Tadbir Tejarat Co.	Distribution & Trading of Oil & Gas Products and EPC contractor in oil, Gas and Power industries	(+98) 21 22548095	(+98) 21 22595965	info@seavan.net

Knowledge Management Department

Apadana Ventures	Pasargad Energy Development Company , Pioneer In Developing Energy Startup Ecosystem	(+98) 21 22653156	(+98) 21 26290640	info@apadanavc.com
Energic Innovation Center	PEDC investment in innovative future.	(+98) 21 66460043	(+98) 21 66460043	info@irenergic.ir



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