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PECO

شرکت خدمات مهندسی
پژواک انرژی (سهامی خاص)



Pezhvak Energy Engineering Services Company (PECO)

**Private Leading Company in The
Oil And Gas Drilling Projects**

www.pezhvakenergy.com

About us

Our journey began in 2004 when PECO was established as one of the PEDC subsidiaries with the aim of providing logistics for offshore and onshore drilling operations. In 2017, the Company changed its mission to comply with the Iranian Oil industry's approach to award integrated projects.

Over the years, we have proceeded as a contractor to execute integrated projects including engineering services, procurement, drilling operations and technical services (EPDS).

Currently, PECO is delivering numerous highly efficient projects in exploration, development and production of oil and gas fields through our comprehensive knowledge, experience and highly competent human resources, taking into account the employee health and preserving the environment.

PECO was established as a reliable and professional company in the Iranian drilling market within a short period of time since the start of its activities in the field and strive to expand its services beyond the borders.



Elements of Strategic Planning in PECO



Turning plans into action

As a private leading company in the oil and gas industry relying on expert human resources and benefiting from knowledge and new technologies, our mission is to:

- Create value for our shareholders and stakeholders
- Provide integrated project management and selected engineering services to our clients.
- Address our social and environmental responsibilities throughout our operations.

Our values:

■ **Create enduring values:** We are committed to doing the right thing in all areas, including safety, quality and productivity, even when no one is watching. For us, the implementation of each project is a stage that leaves a lasting impression of our capabilities and commitment.

■ **Responsibility and accountability:** We will use all our determination to fulfill our commitments. Gaining the trust of all stakeholders and interacting effectively with them is our priority.

■ **The Audacity to Thrive:** We are courageously seeking for the best business opportunities and we believe that healthy and professional competition makes us stronger.

■ **sustainability and flexibility for change:** improving efficiency is a constant process for us, and to achieve this we are not only looking for the best innovations, but also welcome all creative and different ideas and solutions. Change makes us stronger.

Our vision

■ **To position ourselves** as an excellent and innovative leading contractor focused on the execution of oil and gas drilling projects.

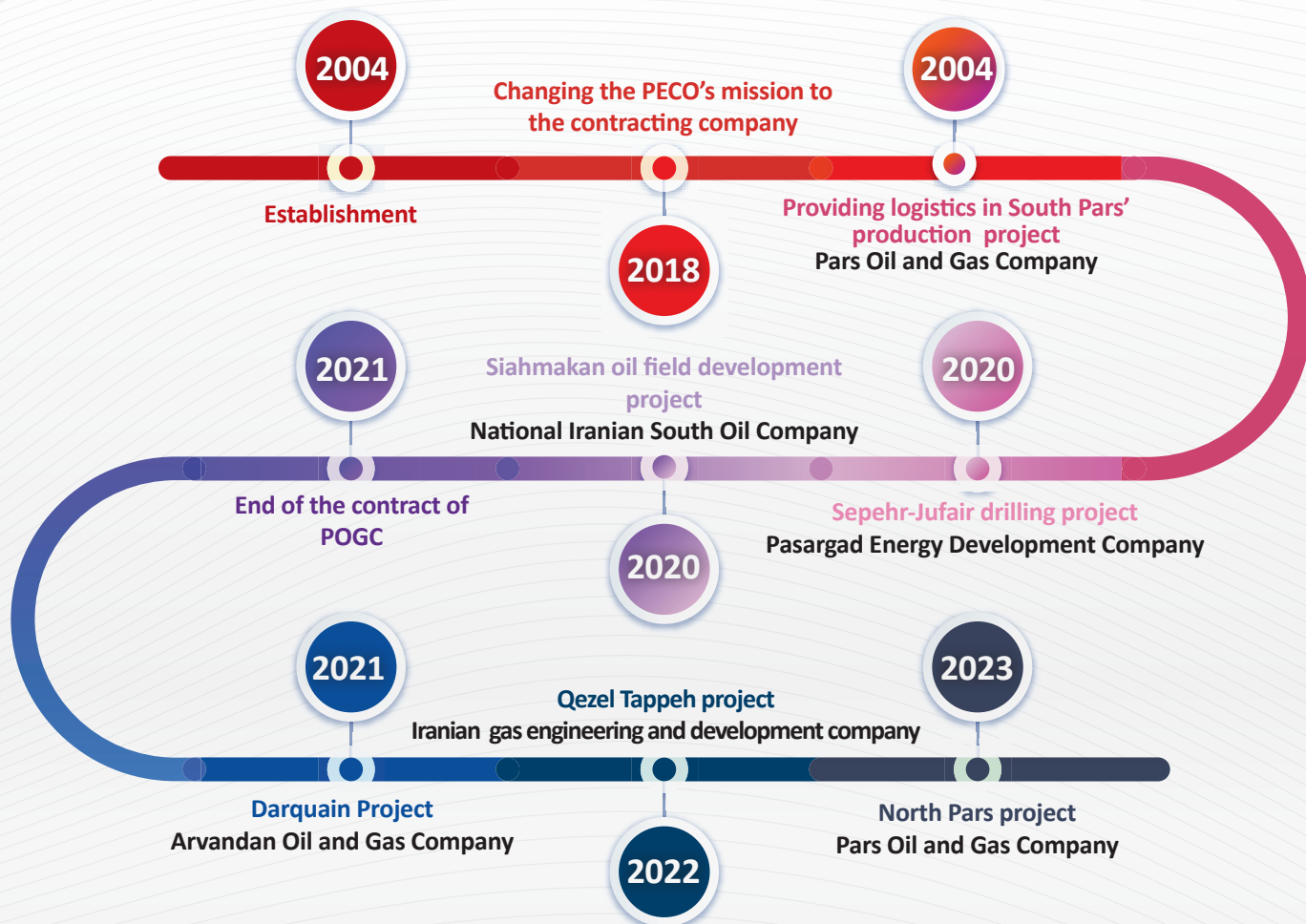
PECO Services

Over the years, we have expanded our services in the following areas:

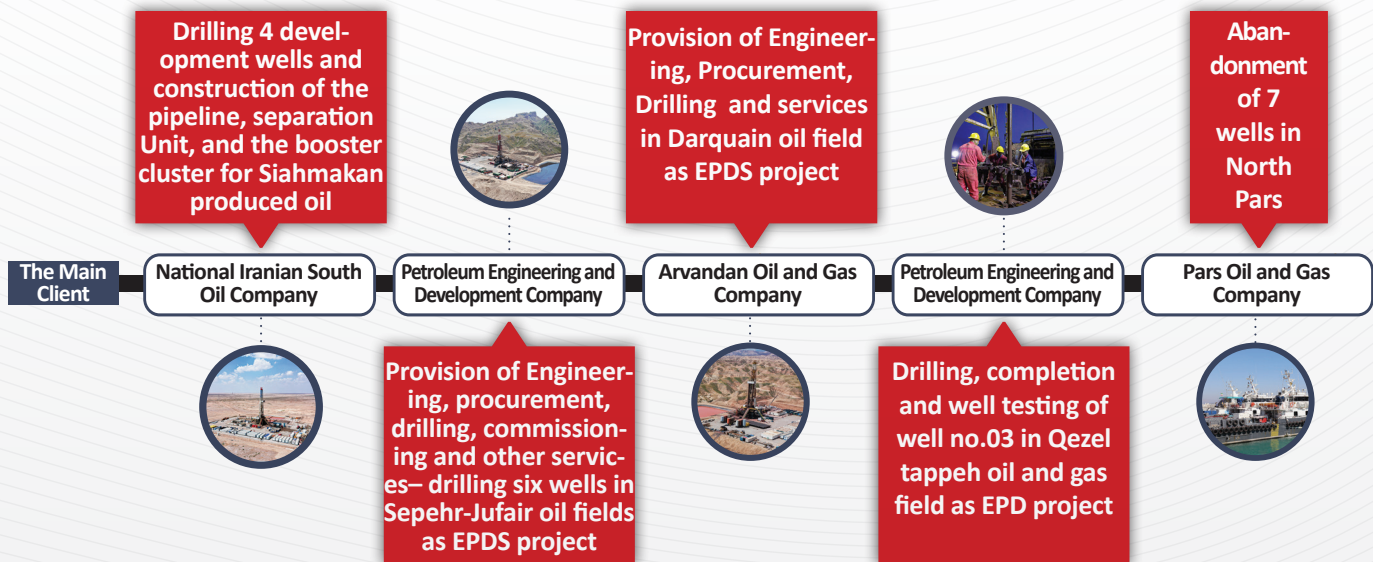
- Providing integrated services of Project Management, Engineering, Procurement, and drilling onshore and offshore oil and gas Projects (EPD)
- Providing integrated drilling services/integrated oil and gas production services. (IDS/IPS)
- Designing, engineering, procurement, construction and commissioning of oil and gas surface facilities (EPC)



PECO history timeline at a glance



PECO's performance in onshore drilling project at a glance



Appraisal 4 wells:

- Qezel Tappeh well No.03
- Sepehr-Jufair well no.02 and 09
- Siahmakan well no.07

Development 7 wells:

- 3 wells at Siahmakan Oil field
- 4 wells at Sepehr-Jufair Oil field

Work over 11 wells:

- 4 wells at Darquain oil field
- 7 wells at North Pars

Siahmakan oil field development project (Bushehr)

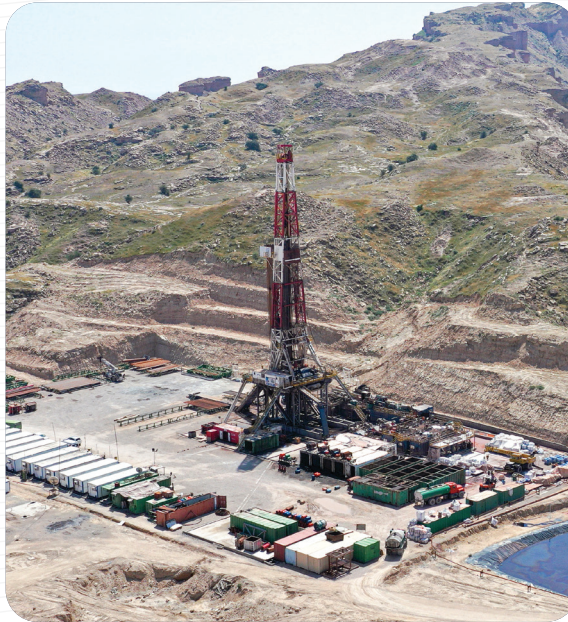
Contract content: Drilling 4 wells as EPD and installation and commissioning of pipelines, separation Unit, and the booster cluster for Siahmakan produced oil with the capacity of 10,000 barrels per day

The Main Client: National Iranian South Oil Company

The Client: Pasargad Energy Development Company

Project location: 10km south of Bibi Hakimeh and west of Kilverkarim oil-field

Contract type: EPCDS



Executing the comprehensive EPD-EPC project :

1.EPD sector:

Drilling operation of 4 new vertical Bangestan wells with the approximate depth of 5000 meters

2.EPC sector:

A: Detailed designing and commissioning of separation unit, and the booster cluster with the capacity of 10,000 barrels per day

- Installation of a 12-inch subsurface gas pipeline with the approximate length of 17 km from separation and booster cluster of Siahmakan oil field to booster cluster of Bibihakimeh No.02

- Installation of an 8-inch surface pipeline with the approximate length of 3 km from separation and boosting cluster of Siahmakan and connection to the 8-inch

outlet pipeline of existing manifold of Siahmakan as well as required facilities.

- Construction of 13.5 km of 66 kW single-circuit metal electric transmission line along with out door post in order to supply electricity to the separation unit and booster cluster of Siahmakan oil field.

- Connecting existing wells to new separation unit and booster cluster of Siahmakan

B: Subsurface construction:

- Detail designing, implementing and commissioning to complete wells locations

- Construction of new well locations.

- Construction of pipelines from new wells to the separation unit and booster cluster of Siahmakan oil with approximate length of 12.5 km.



The main achievements of Siahmakan oil field project

- Successful drilling and completion of three Bangestan new wells despite of having depth about 5000 meters, complicated technical issues and wellbore instability

- Setting a record of finishing drilling operation of 8 8/3 in hole section Siahmakan No. 8 well in less than 20 days, while average duration of drilling operation in this hole in previous wells was 114 days.

- Using new technologies in lost circulation control and prevention of several thousand barrels of mud loss



Sepehr-Jufair Project

Contract content: Providing engineering, procurement, drilling operation and services as well as commissioning of other services/ drilling six wells in Sepehr-Jufair oil field as EPDS.

The Main Client: Petroleum Engineering and Development Company (PEDEC)

The client: Pasargad Exploration and Production

Project location: Khosetan province, 60 km west of Ahvaz and 30km south of Susangerd

The contract type: EPDS

The complete implementation of the EPDS is as follows:

- Providing engineering, procurement, drilling operation, well completion, well testing and stimulation and all drilling services (EPDS) of 6 wells by using 4 HP 2000 rigs for developing Sepehr-Jufair oil field.

- Sepehr No.02 and No.09 are delineation wells and Sepehr No.03 , 06, 08 and Jufair 07 are production wells. The drilling depth of every well is approximately 4650 meters and 27900 meters collectively.



The main achievements of Sepehr-Jufair oil field project

- The continuous improvement of drilling efficiency and setting the best drilling time record among all drilled wells by different contractors in this field from the beginning of the project until now.

- Success in the manufacturing and running completion string with 10,000 Psi working pressure with the meticulous design and strict supervision of PECO on the relevant contractor company.

- Adherence to all safety and environmental standards resulting in record of 830 working days without incident leading to LTI (from the beginning of the project until now)

- Designing and implementing an innovative composition of completion fluid resulting in cost reduction of project

Darquain project

Contract content: Provision of engineering, procurement, drilling and services of 4 work over well in Darquain field (EPDS)

The Main Client: Arvandan Oil and Gas Company

Employee: Ostovan Kish Drilling Company.

Project location: Darquain oil field

The contract type: EPDS

Executing comprehensive EPD project as follows:

EPC sector:

- Improvement of access road to all wells
- Repair and improvement of pits in all

wells

- Development and improvement of concrete pads in all wells

- Construction and repair of burn pit in all existing wells

EPD sector:

The main purpose is to perform work over and completion of existing wells to produce from fahlian formation for maintaining of production rate of Darquain field (darkhion 8, 9, 11) and waste water injection to asmari formation in Darquain well No.2.



The main achievements of Darquain oil field project

- Finishing the operation of first Darquain well in less than half of the planned time.
- Successful implementation of triple casing perforation for the first time in Iran



Qezel Tappeh drilling project (HP-HT)

Contract content: Qezel Tappeh oil field well No.03 drilling and well testing contract

The client: Engineering and developing of gas company

Project location: Golestan province, 20 kms north-west of Gonbad-e kavus county

The contract field: provision of Engineering, procurement, drilling and services

Project type: EPD

The project description: Drilling to the depth of 5000 meters in three stages of 5 7/8, 8 3/8 and 12 1/4 with the pressure of 15k and temperature of 320 ° F



Increasing the production capacity project of the South Pars Gas Company (POGC)

Contract content: Work over of phase 4 (operational location of SPD5), completion, work over and increasing the production of phase 13 wells (13C and 13B) and provision of drilling and technical services and logistics of well number 02 of Yalda exploration field

The client: South Pars Oil and Gas Company

Project location: phases 2,3,4 and 5 south pars field

Partnership with the consortium of Pasargad Energy Development and Ostovan Kish Drilling Companies

Delivery statues: delivered

PECO was in charge of provision of project management, financial management, procurement and warehousing, some technical and engineering services, and all logistics and support in the project.

