Petrofac at a glance

Petrofac is one of the world’s leading providers of services to the oil and gas industry. We help our clients realise the full potential of their resources, whether they are onshore or offshore, greenfield (new) or brownfield (existing).

We have been delivering and evolving for more than 37 years and are proud to be a truly multinational organisation with a diverse workforce including more than 80 nationalities.

Wherever we work around the world, our people share a common outlook and the same core values which make us unique, inspire our success, and guide our decisions and actions.

Petrotrack showcases our international delivery capability and shines a spotlight on some of the countries in which we operate.

Petrofac at a glance

International oilfield services provider

Established 1981

12,750 people

Helping our clients to unlock value from their oil and gas assets

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Our business model

Engineering expertise is at the heart of everything we do

Value inputs

- Our people
  As a people-based business, we have a problem-solving culture, clear values and strong leadership.
- Risk processes and risk management
  By thinking through every eventuality, we de-risk our projects and bring certainty to clients.
- Our supply chain and contractors
  With deep knowledge of the many businesses in our supply chain, we know when and how to call on their respective strengths.
- Financial capital
  Exerting capital discipline, we operate a balanced portfolio; we judiciously co-invest, and sometimes tap into third-party capital.

Core capabilities

- Design
  From the concept to the detail, we provide design and engineering services across the life cycle of oil and gas assets.
- Build
  Onshore or offshore, greenfield or brownfield, upstream or down, we provide the full spectrum of engineering, procurement, construction and commissioning services.
- Manage and maintain
  We operate and maintain oil and gas assets on behalf of clients under contract, to suit their requirements. We develop safe and effective local workforces by assessing capability needs, building facilities, designing curricula and delivering training programmes.

Commercial models

- Lump-sum turnkey
  Projects where we are remunerated on a fixed-price (lump-sum) basis.
- Reimbursable services
  Where the cost of our services is reimbursed by the client plus an agreed margin.
- Cost plus KPIs
  Reimbursable with margin linked to the successful delivery of key performance indicators.
- Production Enhancement Contracts (PECs)
  Where we are paid a tariff per barrel for enhancing oil and gas production above an agreed baseline.
- Risk Service Contracts (RSCs)
  Where we co-invest, develop, operate and maintain a field, while the resource holder retains ownership and control of the reserves.
- Equity Upstream Investments
  Upstream investments made through production sharing contracts or concession agreements.

Outcomes

- Client value
  Delivering from certainty of cost and delivery, and taking advantage of commercial models that meet client needs.
- In-country value
  Developing local skills and capabilities, benefiting local development, and stimulating productivity in local economies.
- Shareholder value
  Delivering sustainable, long-term value, through dividends payments to our shareholders and the financial returns from share price growth.

Working across the international oil and gas industry, we help our clients unlock the full value of their energy assets.

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PETROTRACK – OUR TRACK RECORD

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INTRODUCTION
We operate out of eight operational centres in Aberdeen, Abu Dhabi, Chennai, Delhi, Kuala Lumpur, Mumbai, Sharjah and Woking, plus offices and training facilities in over 30 locations worldwide.

Today our projects span 29 countries and we are continually seeking new opportunities to develop our business and capabilities; all of which help us generate future growth.
Petrofac has a strong heritage in Oman dating back to 1988. We have continued to build our portfolio in the Sultanate, which includes engineering, procurement and construction (EPC), engineering, procurement and construction management (EPCm) projects and operations and maintenance support contracts. In June 2017, Petrofac signed a framework agreement with Petroleum Development Oman (PDO) for the provision of EPCm Support Services for major oil and gas projects.

We deliver locally in support of the Government of Oman’s in-country value (ICV) programme, whereby we create ICV through the recruitment and training of Omani personnel as well as the utilisation and development of Omani service providers and vendors. Our growing engineering office in Muscat further demonstrates our commitment to being an integral and sustainable part of the local market. As part of the localisation drive, and in order to fast track the development of Omani operators and technicians in support of the oil and gas industry, we are currently investing in and establishing a centre of excellence for training with our local partner Takatuf (a subsidiary of Oman Oil Company).

Recent projects:

- **US$2.1 billion**
  - Sohar refinery and improvement project, a 50/50 joint venture with Daelim Industrial Co., for Orpic

- **US$2 billion**
  - Duqm Refinery project, a 50/50 joint venture with Samsung Engineering, for Duqm Refinery and Petrochemical Industries LLC (DRPIC)

- **US$1.2 billion**
  - Khazzan gas development project, a contract with BP for the central processing facility

- **US$1.2 billion**
  - Rabab Harweel Integrated project, an EPCm contract for PDO

- **US$900 million**
  - Yibal Khuff field project, an EPCm contract for PDO

- **US$600 million**
  - Salalah LPG extraction project for Oman Oil Facilities Development Company LLC (OOFDC)

- **US$50 million**
  - Operations and maintenance services contract with COCSP for the Musandam Gas Plant and Abu Tabul onshore development
Located in the Sohar Industrial Area, 230 km north west of Muscat, the scope of work encompasses engineering, procurement, construction, start-up and commissioning services at the refinery. The contract includes improvements at the existing facility as well as the addition of new refining units.

“When complete, it is anticipated that the revamped facility will increase current output by more than 70%.”

In June 2017 the project had achieved over 53 million man-hours without a lost time incident; this is particularly impressive given the enormous scope of work, along with the large number and wide range of personnel on site, which reached 13,000 at peak.

CLIENT
Oman Oil Refineries and Petroleum Industries Company (Orpic)

SCOPE
Engineering, procurement, construction, start-up and commissioning services

START DATE
2013

END DATE
2017

PROJECT VALUE
US$2.1 billion (with JV partner Daelim Industrial Co Ltd)
UNITED ARAB EMIRATES

SPOTLIGHT ON: United Arab Emirates

With a presence in the Emirates since 1991, we have developed a large multinational work force servicing both regional and international opportunities.

Our operational centres in Abu Dhabi and Sharjah are home to more than 2,500 permanent employees providing a full range of engineering, design, procurement, construction, operations and maintenance, and training services for major oil and gas, refining and petrochemical projects.

Petrofac understands the importance of its role in the local community and in this respect has many relationships in place and engages in a variety of programmes involving local NGOs, charities and educational establishments.

Recent projects:
- US$3.7 billion EPC contract for the Upper Zakum, UZ750 project in consortium with Daewoo Shipbuilding & Marine Engineering Co Ltd
- US$687 million onshore EPC contract for expansion at Bab Compression (Phase 2) and Bab Habshan-1 (Phase 1)
- US$515 million offshore EPIC contract for the Satah Al Razboot (SARB) package 3 project
- Five-year Duty Holder contract to operate Sharjah’s largest producing gas development, the Sajaa Gas Plant, which was transferred back into the Sharjah National Oil Corporation ownership in 2015
- The EPC of four technical training plants at ADNOC Technical Institute which replicate ADNOC full size plants
PROJECT IN FOCUS:
Upper Zakum, UZ750 project

CLIENT
ZADCO

SCOPE
Engineering, procurement, construction and commissioning of offshore, artificial island facilities

START DATE
2013

END DATE
2018

PROJECT VALUE
US$3.7 billion

Upper Zakum is one of the major offshore field developments in the UAE. This mega project is located 80 km off the coast of Abu Dhabi, and is being constructed on four artificial islands.

Upper Zakum is the second largest offshore oil field and fourth largest oil field in the world. Production from the oil field started in 1982.

The project comprises engineering, procurement, module fabrication, construction and commissioning of island facilities. Specifically, this will include wellhead control, manifolds, crude oil process facilities, water injection and gas lift, oil export pumps, power generation and associated utilities.

ZADCO has an ambitious goal to raise oil production to 750,000 bopd, which will be sustainable for 25 years, with future potential to go higher.

“Upper Zakum is the second largest offshore oil field and fourth largest oil field in the world. Production from the oil field started in 1982.”
Petrofac is proud to have played its part in the rebuilding of Kuwait’s oil and gas infrastructure. Our first entry into the country was in 1982, but the majority of our portfolio dates from the turn of the millennium and has seen us build a solid track record of delivery and an excellent safety record.

We understand the local culture and market, and enhance in-country value by supporting local goods and services.

Established in 2011

Operations office in Ahmadi

13 EPC projects

Recognised as EPC contractor of the year (Kuwait) in February 2016, by The Oil & Gas Year (TOGY)

Current major EPC projects:

- **US$4 billion** heavy oil project (in consortium with CCC) for Kuwait Oil Company’s (KOC) Lower Fars heavy oil development programme
- **US$3.7 billion** refinery project for Kuwait National Petroleum Company’s Clean Fuels Project in consortium with Samsung and CB&I
- **US$1.3 billion** contract for KOC’s Gathering Centre 32 (GC32)
- **US$780 million** contract for KOC’s Manifold Group Trunkline system
- **US$700 million** contract for KOC’s Gathering Centre 29 (GC29)
PROJECT IN FOCUS:

Water Injection project

CLIENT
KOC

SCOPE
Engineering, procurement and construction

START DATE
2010

END DATE
2014

PROJECT VALUE
US$430 million

The project involved the installation of a new central injection pumping facility and modifications to three of the existing gathering centres and sea water treatment plant. Both effluent water and sea water were injected into the wells with the objective of increasing the oil recovery capacity in the nearby fields.

The scale of high pressure injection using such pipelines had not been achieved anywhere else in the world, making this project one of a kind. Such high pressures and the corrosive nature of the fluids involved, meant dealing with some rigorous integrity and safety issues. We maintained an excellent safety record and twice received a Gold Award from the American Society of Safety Engineers for HSE excellence.

“The scale of high pressure injection using such pipelines had not been achieved anywhere else in the world, making this project one of a kind.”
SPOTLIGHT ON: Saudi Arabia

Over the years, Petrofac’s engineering, procurement and construction expertise has been deployed to assist a large number of key oil and gas developments in Saudi Arabia. We opened our Al Khobar office in 2009 and a number of large EPC projects have followed. Our operations include onshore oil and gas, refining and petrochemicals, and industrial projects.

Petrofac supports numerous programmes with local communities. Our Saudi Future Generation Programme provides engineering, construction, supervisory, and safety skills training, enabling us to create sustainable skills within the community and contribute to the development of the Kingdom’s infrastructure. Early in 2017, Petrofac made a substantial investment in the National Construction Training Centre (NCTC); a joint venture between Saudi Aramco and the Technical and Vocational Training Corporation.

Current EPC projects include:
- A contract for Saudi Aramco’s sulphur recovery plant as part of their Fadhili gas programme
- Contracts for Saudi Aramco’s Jazan Refinery and Terminal project
- Two contracts for Petro Rabigh’s Phase II petrochemical expansion project

Established in 2009
- Six EPC contracts
- 80 Saudi construction trainees mentored at our Jazan Refinery project
PROJECT IN FOCUS:

Petro Rabigh Phase II
Petrochemical Expansion

CLIENT
Saudi Aramco and Sumitomo Chemical Co Ltd

SCOPE
Engineering, procurement and construction

START DATE
2012

END DATE
2017

Saudi Aramco and Sumitomo Chemical started the Petro Rabigh Project with the aim of building integrated oil refining and petrochemical operations by way of upgrading Saudi Aramco’s existing oil refinery, situated about 150 km north of Jiddah and constructing a new petrochemical complex. A joint venture agreement was signed between Saudi Aramco and Sumitomo Chemical and Petro Rabigh was established in 2005.

The Phase II petrochemical expansion project was awarded in 2012 and our contracts involve the construction of tank farms and the development of common facilities. An additional package of work has subsequently been agreed and the overall project is expected to complete by the end of 2017.

Along with our other projects in the Kingdom, at Rabigh we localise as much work as possible, offering skills training to local employees and sourcing equipment and materials in-country.

“At Rabigh we localise as much work as possible, offering skills training to local employees and sourcing equipment and materials in-country.”
SPOTLIGHT ON: Iraq

Petrofac is fully committed to investing in its long-term presence in Iraq. Developing relationships and understanding the operating environment is critical to this. We are engaging with the National and International Oil Companies, as well as potential local partners and contractors to support us. We are also working with local communities to ensure they feel engaged and are benefiting from our presence.

Petrofac is investing considerable resource to develop local staff and contractors. This includes the delivery of over 50,000 delegate training days for the Rumaila oil field.

Our successes in the region have led to the construction of a secure and permanent location – the Rumaila Operating Base – offering both accommodation and office space. This base reinforces our commitment to Iraq for the long term.

Key projects in the region include:

- Majnoon oil field (Shell) – Early operational support, engineering, procurement and construction management for the development of a new early production facility
- Rumaila oil field (BP and ROO) – Engineering, project and construction management, training and maintenance services for the degassing stations, cluster pumping stations and water facilities
- Badra oil field (Gazprom) – Engineering, procurement, construction, pre-commissioning, commissioning and start-up of the Central Processing Facility. Followed by maintenance engineering, maintenance execution and support services
- Training services contracts – A range of training courses such as confined space entry training from our purpose-built confined space training rig in Jordan and gas testing training
- Crude Oil Expansion Project (South Oil Company) – Offshore operations and maintenance services for the new oil export facilities, including 14 vessels delivering an average export of 1.7 mbds per day

260 locally based personnel
Seven years in country
PROJECT IN FOCUS: Majnoon Oil Field

CLIENT
Shell Iraq

START DATE
2010

END DATE
2012

PROJECT VALUE
>US$240 million

This included all utilities consisting of cooling water, fire water, flare and accommodation camp facilities, along with upgrading of existing brownfield facilities. Training support was provided through the provision and mentoring of local nationals who were recruited to work on the project. Work on the project began in mid-2010 and was completed during the fourth quarter of 2012, with additional operations and maintenance work at the end of the project. At its peak, more than 500 employees were involved directly and indirectly. In 2015 we were awarded an additional contract with Shell in Iraq for the management and operation of Shell’s Majnoon training centre in the Majnoon oil field development. Until at least 2017, we will provide human resources, including trainers and administrators, with a focus on supporting the competency development of the national workforce.

PROJECT IN FOCUS: Iraq Crude Oil Export Expansion Project

CLIENT
South Oil Company

START DATE
2012

END DATE
Ongoing

Petrofac is providing operations and maintenance services on the offshore facilities, including four single point moorings (SPMs), a backup SPM stored and maintained in Hamriyah Sharjah, central metering and maintenance platform (CMMP), subsea pipelines and tanker operations, all based 60 km offshore the Al Fao Peninsula in Southern Iraq. Under this competitively tendered contract, we provided FEED, engineering, early operations support, procurement, fabrication and construction management services for the development of a new early production system. This comprised of two trains each with capacity for 50,000 barrels of oil per day, along with upgrading of existing brownfield facilities.

In 2016 we conducted an additional non-core scope which involved the lifting and transferring of a critical equipment spare worth US$20 million. The 300 ton SPM, which takes two years to construct/commission, was to be moved and stored as SOC’s only spare. With the traditional approach of using a 650-ton crane being both time consuming and ‘high risk’, Petrofac proposed an alternative approach using a synchro-lift traditionally used for ships. This approach had never been done before, as SPM’s are not designed to be lifted in this fashion. Petrofac undertook complex engineering studies and collaborated with manufacturer SBM and two third parties to ensure all risks were assessed. The lift and transfer was completed successfully. It was deemed by all to be a highly innovative solution which reduced the cost of the operation by 65% and the schedule from four weeks to four days. It also set a new standard for lifting SPMs.

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Petrofac was awarded a further contract to assemble and install hoses for an additional single-point mooring. The project was successfully executed offshore to minimise the risk and cost of assembling the hose onshore and towing it out to the facility.

Key milestones include:
- 2.2 billion barrels of oil exported between November 2012 and September 2017
- 1.7 million average barrels per day exported, increased from 0.5 million at start of contract (50% of Iraq’s crude oil export passes through)
- 7.45 million man-hours LTI free, achieved on 27 September 2017
- More than 1,100 tankers loaded and sailed between November 2012 and September 2017
- 220 personnel and 14 vessels operating offshore
- Awarded a new contract for one year with option for one more year ending in December 2018

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1.7 million barrels per day
Spotlight on: North Africa

Petrofac has been involved in a number of major North African oil and gas projects, making significant inroads into both the Algerian and Tunisian markets.

Our office in Algeria opened in 1999 and we secured our first major contract in 2000 with the US$660 million Ohanet development. Since then growth has been impressive, with a number of major EPC and engineering services contracts, mainly linked with the Algerian state-owned oil and gas company Sonatrach.

Having had a presence in Tunisia since 2007, Petrofac has executed a variety of conceptual/FEED work and completed a major EPC project: the Hasdrubal gas plant.

We are committed to providing a sustainable presence within local communities in the region and underpinning our presence is a commitment to invest in grassroots training.

Established in 1999 (Algeria)

11 EPC projects

Operational bases in Algiers and Hassi Messaoud

Recent projects include:

- US$1.2 billion Southern Fields development project for In Salah Gas, an association between Sonatrach, BP and Statoil
- US$970 million EPC contract for a gas treatment plant at the Reggane North development awarded by Groupement Reggane
- US$650 million contract to extend the life of the Alrar gas field for Sonatrach
- Operations at the Chergui gas field concession on the Kerkennah Island

Hassi Messaoud
Construction Skills Training Centre opened in 2010 - providing training to encourage entrepreneurship
PROJECT IN FOCUS:
El Merk Central Processing Facility

CLIENT
Groupement Berkine/ Sonatrach Anadarko Association

SCOPE
Engineering, procurement, construction, commissioning and start-up followed by operations and maintenance support

START DATE
2009

END DATE
2017

PROJECT VALUE
US$2.3 billion

The site was developed to build the surface facilities needed for the extraction of hydrocarbon liquid reserves from reservoirs located in the Berkine region, over 1,000 km from the coast.

Planned as the region’s production hub, El Merk processes an estimated 98,000 barrels of oil, 29,000 barrels of condensate and 31,000 barrels of liquefied petroleum gas (LPG) per day; and a natural liquids gas (NGL) train with a nominal capacity of 600 million standard cubic feet per day. The CPF also has the ability to process 500 million standard cubic feet of residue, compressed gas re-injection and approximately 80,000 barrels per day of produced water treatment and re-injection facilities.

During construction more than 1,000 km of electrical cable was laid, along with 1,200 km of instrument cabling, and 225 km of telecom cabling. Following the EPCC scope, Petrofac was contracted to provide continued O&M support beyond the EPC phase to support client operations across a further two years. This project has supported the client to operate and maintain the facilities whilst developing the local workforce.

The El Merk project has achieved 25 million man-hours without a lost time incident, and has received accolades from the client recognising this achievement to be world class. This mega project is proof that Petrofac can perform in the most challenging of conditions.
Petrofac has a strong track record of operating in the UKCS. Our integrated services include:

- **Engineering:** Early conceptual, FEED, detailed engineering and brownfield modifications scopes from minor to major
- **Operations:** Experienced personnel, maintenance and technical support contracts; fully outsourced asset management and transition management
- **Training:** Provision of a range of HSEA, technical, emergency response and crisis management training
- **Competency:** Competence management, eLearning and managed services
- **Production:** Well engineering, well project management and asset management services
- **Late life/Decommissioning:** Engineering, asset management, optimised maintenance and well plug and abandonment

## SPOTLIGHT ON: UKCS

- **36 years in country**
- **3,500 employees**

### Highlights of our UKCS activities include:

- Pioneering the Duty Holder, Service Operator and Well Operator models, with two decades of experience and a market-leading position
- Enabled nine new entrant operators to establish themselves in the UKCS
- 15 years’ experience safely executing brownfield engineering and construction modification projects for North Sea Operators, including: Chevron, Repsol Sinopec Resources UK, Apache, Maersk Oil, BP, Marathon Oil, EnQuest and TOTAL E&P
- 25 years’ experience in operations and maintenance including: CNRL, EnQuest, BP, TOTAL E&P, Tullow Oil, Eri and Britannia Operator Limited
- Plugging and abandonment services for Tullow Oil’s Horne and Wren Platform which saved US$2.5 million
- An ongoing three year contract with Hurricane Energy, where we were the first outsourced Well Operator to manage a drilling campaign under the new 2015 Safety Regulations
- Engineering experience includes Sullom Voe, TPOC Mansuriya (FDP/FEED/PMC) and Galloper Wind Farm
- Asset management development and improvement plans for BP, Bumi Armada, Centrica, ENGIE, EnQuest and Nexen
- Condition monitoring programme support for Bumi Armada, Centrica Storage, Perenco, TAQA and two Duty Holder assets
- More than a million people have trusted us with their training needs for more than 36 years
PROJECT IN FOCUS:

Service Operator for Anasuria Operating Company (AOC)

AOC assigned Petrofac full responsibility for the operation of the Anasuria FPSO and associated pipeline and well operations*. The Anasuria FPSO handles production from the Teal, Teal South, Guillemot A, and Cook fields. Within this contract, the responsibilities of Installation Operator (including Duty Holder), Pipeline Operator and Well Operator were combined for the first time within Petrofac’s Service Operator model.

*with the exception of the Cook well.

Over a six-month transition period, 68 people were transferred across to Petrofac and within the first six months of operations production from the Cook well had increased by 50% and gas export had increased by 50%. In 2016 this resulted in the highest oil export since 2010.

We are working hard to extend the life of the vessel through inspection activities including twelve tank inspections to date. We carried out a major shutdown in September 2017, during which we replaced pipework and carried out upgrades to vessels to ensure the long-term integrity of the asset. We also converted one of the subsea production wells to gas lift to increase production. These are tangible examples of how Petrofac and AOC are working to extend the life of the Anasuria cluster and use the might of their enterprise to maximum effect. The collaboration not only marks the evolution of Petrofac’s service model but also the beginning of a new era for the North Sea.

PROJECT IN FOCUS:

Duty Holder for BP Miller

Petrofac was awarded a Duty Holder contract from BP to support the decommissioning of the non-producing Miller platform, which was in the final stage of its late life and about to enter the decommissioning phase. Following a short transition, the new contract formally commenced in August 2016.

As part of its strategy towards decommissioning Miller, BP moved responsibility from its own operations organisation to its project organisation, while we managed the asset. As Duty Holder, we enabled BP to focus on removal activities, while we focused on safe operations, asset maintenance and integrity throughout the complex preparatory and removal works.

We worked collaboratively with BP and the heavy lift contractor, Saipem, integrating our teams to support logistics, onshore support, waste management, permit and safety case development and job planning. This approach was central to the success of the project.

Removal activities (topsides and jacket) were completed against both budget and plan by August 2018.
PETROTRACK – OUR TRACK RECORD

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SPOTLIGHT ON:
Americas

Petrofac was established in Texas in 1981 and our commitment to the Americas region has continued to this day, with offices in Houston, Alaska and Mexico.

Our Houston office delivers our full Petrofac portfolio from tailored engineering services to full scale EPC, and operations and maintenance contracts. Additional Houston based work includes specialised teams delivering training and competence, asset management and operational readiness integrated services (ORIS), a co-ordinated suite of services for major capital projects or operating facilities.

In Mexico we became the first foreign company to operate state oil fields for more than 70 years when we were awarded two integrated services contracts by Petróleos Mexicanos (Pemex), Mexico’s National Oil Company, to develop the Magallanes and Santuario blocks. We have worked hard to run our operations responsibly, invest in Mexican communities, engage openly and ensure that local cultural heritage is preserved.

From Alaska we service our most northerly operations including asset management consulting services for BP’s plants on the North Slope, whom we have worked with in the country for more than ten consecutive years.

Established in 1981

Three regional offices

In Mexico we have been awarded a further four contracts:

- **Pánuco**
  Integrated services contract in partnership with Schlumberger, covering four mature onshore fields

- **Arenque**
  A contract to improve the recovery factor and increase production from the offshore field

- **Lakach**
  Providing specialised technical assistance and supervision for the construction, installation, commissioning, testing and start-up of deep-water subsea wells and infrastructure

- **Engineering Services Framework Agreement**
  Contract with Pemex, providing assistance and support for technical solutions in the development of projects
PROJECT IN FOCUS: Magallanes and Santuario

CLIENT
Pemex

START DATE
August 2011

45% boosted output

Since taking responsibility for the Magallanes and Santuario Production Enhancement Contracts, we have boosted output by 45% from operation takeover, and the known resource base is up by more than 10% – which means that PEMEX has seen a significant increase in both the scale and the efficiency of its assets.

The project utilised personnel from across the Group, including from our extensive engineering, asset management, training (including interactive learning), completions, operations and production services worldwide, providing the expertise and resources needed without compromising quality, schedule or cost.

PROJECT IN FOCUS: Chevron Wheatstone

CLIENT
Chevron

SCOPE
Consultancy services

START DATE
2012

END DATE
2017

Led from our Houston office we provided professional consultancy services to the Chevron operated Wheatstone Project in Western Australia as an embedded extension to the project’s downstream Operations team. This included review, oversight and assurance capabilities in respect of operability and maintainability of facility design. We also provided advisors to support commissioning and start-up activities.

Originally commissioned in the early 1960s, these oil fields had been largely ignored in favour of other, better producing fields, and only one in ten of the drilled wells remained productive. But, drawing on our broad-based capabilities, we knew that a combination of innovation, focus and hard work could maximise the inherent resources we knew the fields still retained.

Furthermore, we are committed to hiring and developing local resources. Since establishing in-country operations we have recruited more than 350 new employees and more than 90% of our staff are Mexican.

These production enhancement contracts are in the process of being migrated to production sharing contracts.
From offices in Malaysia, India, Australia, China, Singapore and Thailand we deliver the entire Petrofac offering across the Asia-Pacific.

Our services in the region include E&C projects, specialist studies, engineering, competency development, asset management, and operations and maintenance, along with a commitment to delivering outsourced facilities management and decommissioning services. Our high value engineering centres in the region help us deliver cost-effective projects at scale and support many of our global engineering scopes.

Malaysia is also home to Petrofac-RNZ which was formed through the acquisition of RNZ Integrated. This acquisition gives us access to 23 years of experience delivering engineering and consultancy services for Malaysian and regional clients.

**Key projects in the region include:**
- Facilities management and operations and maintenance services for Mubadala Petroleum's FPF-003 FPSO in Jasmine Field, Gulf of Thailand
- Enhancing the production of Block PM304, located offshore Peninsular Malaysia
- Delivering an EPC contract for PETRONAS' RAPID project in Pengerang, Johor
- Engineering scopes for Petronas' Berantai field, West Desaru MOPU and Cendor field
- Operations Readiness and eLearning delivery for Chevron Wheatstone in Australia
- Well engineering services in Malaysia, New Zealand and South-East Asia
- Maintenance and integrity builds for INPEX Ichthys and five Woodside Energy Ltd facilities
- Management and operation of the Chemical Process Technology Centre in Singapore, and operations and maintenance training in the INSTEP training centre in Malaysia
PROJECT IN FOCUS:
Berantai Gas Field Development

CLIENT
PETRONAS

SCOPE
Risk service contract to develop and operate the field

START DATE
2011

FIRST GAS
2012

PROJECT VALUE
US$1 billion

“The client, PETRONAS, retained full ownership of its resources, and Petrofac’s returns were directly linked to project delivery.”

One of the things that set the project apart was the customer’s tight timescales. With a full range of in-house capabilities we could really fast-track delivery. First gas was produced just 21 months after the final investment decision.

We also devised an innovative commercial approach, which takes the form of a Risk Service Contract. Our client, PETRONAS, retained full ownership of its resources, and Petrofac’s returns were directly linked to project delivery. So our respective interests were perfectly aligned.

The success has reinforced our credentials in the Asia-Pacific region. Transferring back to PETRONAS, the Risk Service Contract ceased in September 2016.

Petrofac continues to perform life extension works to the FPSO system to enable the operation to potentially continue to the end of 2023. Under the contract terms we will deliver an optimised scope designed to further reduce Jasmine’s operating costs and to create operational efficiencies which will underpin the viability of the mature field development.

This contract is supported by around 40 people offshore and an eight-strong operations support team based in the Bangkok office.

Key successes have included:
• Over 485 liftings of crude oil to export tankers
• Upgraded the accommodation facilities in 2012
• Completed life extension study of the moorings, turret and main swivel bearing
• Installed a new produced water riser in 2013 and a new production riser in 2014
• Completed the replacement of the moorings in February 2015

PROJECT IN FOCUS:
FPF-003 FPSO

CLIENT
Mubadala Petroleum

SCOPE
Facilities management for the FPSO at the Jasmine field in Thailand

START DATE
2011

END DATE
2023

Through the delivery of a robust Operating and Maintenance (O&M) Service, Petrofac, by working together with its client, has been able to reduce the operating costs of the FPSO without compromising safety. The recently revised O&M agreement now extends to the end of 2023.

>485 liftings of crude oil to export tankers

PETROTRACK – OUR TRACK RECORD
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SPOTLIGHT ON: CIS

Petrofac has had a presence in the CIS for more than 20 years, our Moscow office opened in 1993. We have completed a number of EPC and EPCm projects, many of which are in remote areas with harsh climates.

In 2004 we secured a multi-million dollar contract to develop process facilities for the vast Kashagan field in Kazakhstan. We have since delivered a number of projects in the country, and in 2013 led a consortium to provide services for the development of KLPE’s Integrated Petrochemicals Complex and Infrastructure project in the Tengiz and Karabatan areas.

As a service company working in the oil and gas industry we always put the safety of our people first. We have a good track record of delivery across this extensive region, supporting the development of in-country service providers with local content being key.

In 2008, we opened the Sakhalin Technical Training Centre, on Sakhalin Island. We are committed to sustainable growth in the region and the training centre was established with the aim of meeting the increased local demand for competent industry personnel.

Recent projects:

- US$3.4 billion contract for the Turkmengas Galkynysh gas field processing facility
- US$700 million contract for the Sakhalin Energy Investment Company Ltd. (Sakhalin Energy) Onshore Processing Facility (OPF) on Sakhalin Island
- Development of process facilities for the Kashagan field in Kazakhstan, for AGIP Kazakhstan North Caspian Operating Company (AGIP KCO)

Over 25 years in the region

16 EPC projects completed
PROJECT IN FOCUS: Galkynysh Gas Field Processing Facility

Located in Turkmenistan, approximately 400 kilometres south of the capital Ashgabat, the US$3.4 billion Petrofac-built plant was one of three being built at Galkynysh and is capable of processing 10 billion cubic metres of gas per year. Formerly known as South Yoloten, the Galkynysh field has been announced as the second largest gas field in the world.

Aggressively scheduled for completion in 33 months, the mega project was inaugurated following a successful commissioning of utilities and introduction of gas to process facilities in September 2013. The feed gas from the field contains up to 6% H₂S, and the development includes gas treatment and sulphur handling facilities, along with well pad facilities, gathering facilities, infrastructure and utilities, condensate processing, storage and 100 kilometres of 56" export pipeline.

As part of the project, we were asked to connect the gas plant with the region’s rapidly growing railway infrastructure. We developed a sophisticated system for weighing the freight wagons, used for the export of condensate and sulphur, travelling at speeds up to 56 kph and operating 16 hours a day.

At its peak 14,500 personnel, 70 percent of whom are Turkmen, worked for Petrofac on this venture and a dedicated construction training facility was built nearby.

“At the Galkynysh field has been announced as the second largest gas field in the world.”