A world designed to last

TKJV LLP

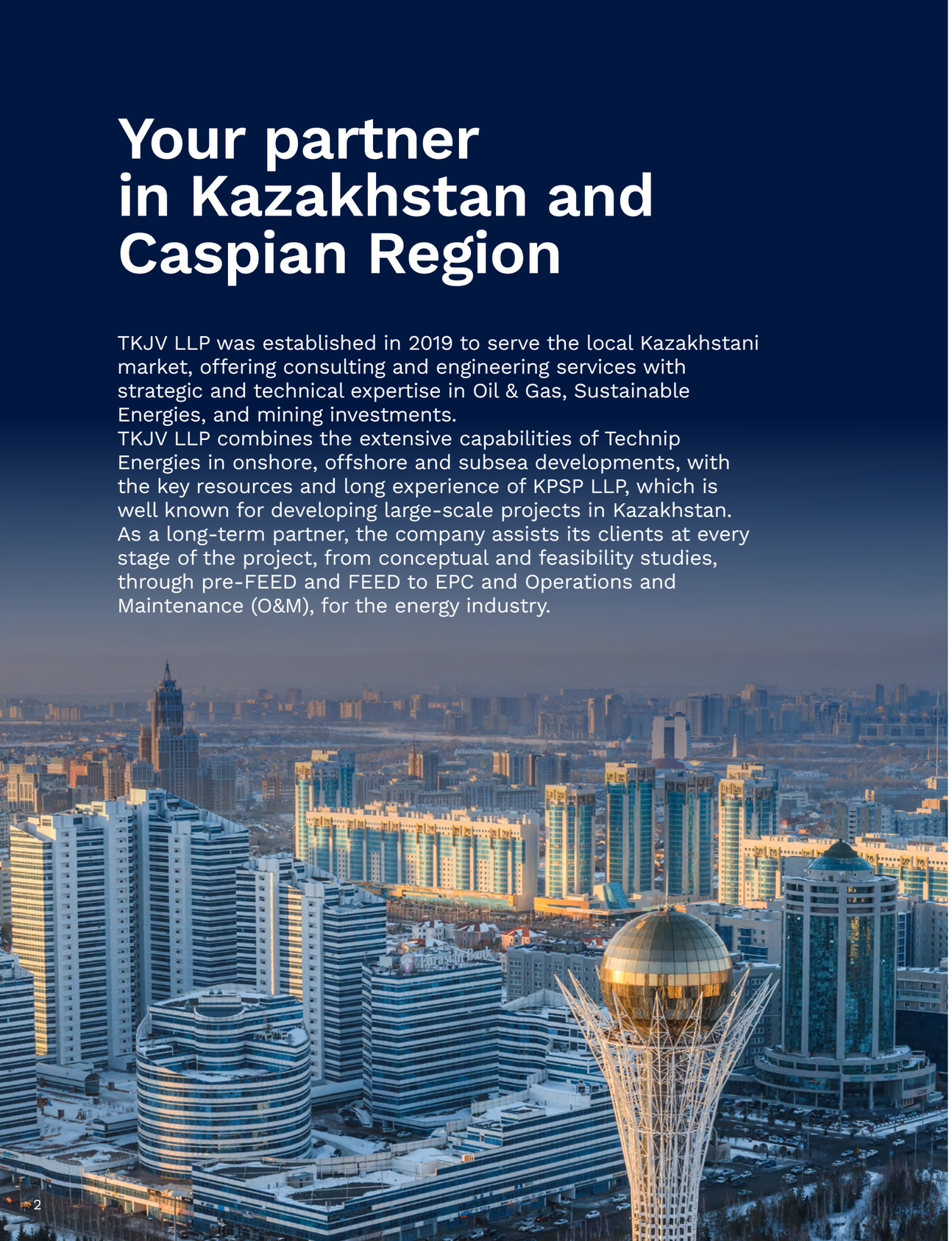
Leading the way in energy consulting, engineering services, and project management excellence in Kazakhstan.



T.EN TECHNIP ENERGIES

Your partner in Kazakhstan and Caspian Region

TKJV LLP was established in 2019 to serve the local Kazakhstani market, offering consulting and engineering services with strategic and technical expertise in Oil & Gas, Sustainable Energies, and mining investments.
TKJV LLP combines the extensive capabilities of Technip Energies in onshore, offshore and subsea developments, with the key resources and long experience of KPSP LLP, which is well known for developing large-scale projects in Kazakhstan.
As a long-term partner, the company assists its clients at every stage of the project, from conceptual and feasibility studies, through pre-FEED and FEED to EPC and Operations and Maintenance (O&M), for the energy industry.



TKJV LLP is firmly committed to the development and maximization of Kazakh content by engaging in strategic skills development and training programs to achieve transfer of knowledge and natural growth expansion.

TECHNIP ENERGIES

Technip Energies is a leading Engineering & Technology company for the energy transition, with leadership positions in LNG, hydrogen and ethylene as well as growing market positions in blue and green hydrogen, sustainable chemistry and CO_2 management. The Company benefits from its robust Project Delivery model supported by an extensive Technology, Products and Services offering.

Operating in 34 countries, our 16,000 employees are fully committed to bringing our clients' innovative projects to life, breaking boundaries to accelerate the energy transition for a better tomorrow.
Technip Energies shares are listed on Euronext Paris. In addition, Technip Energies has a Level 1 sponsored American Depositary Receipts ("ADR") program, with its ADRs trading over the counter.

KPSP 1959

KPSP is a leading Kazakh engineering company with a 60-year track record of large-scale industrial and civil projects in the Commonwealth of Independent States (CIS) countries since 1959.
KPSP is currently active in Kazakhstan and Russia and holds all RoK Category 1 design licenses. The company's references include 200+ clients, more than 5,000 projects completed and 250 highly qualified engineers in six offices.

2019
incorporated

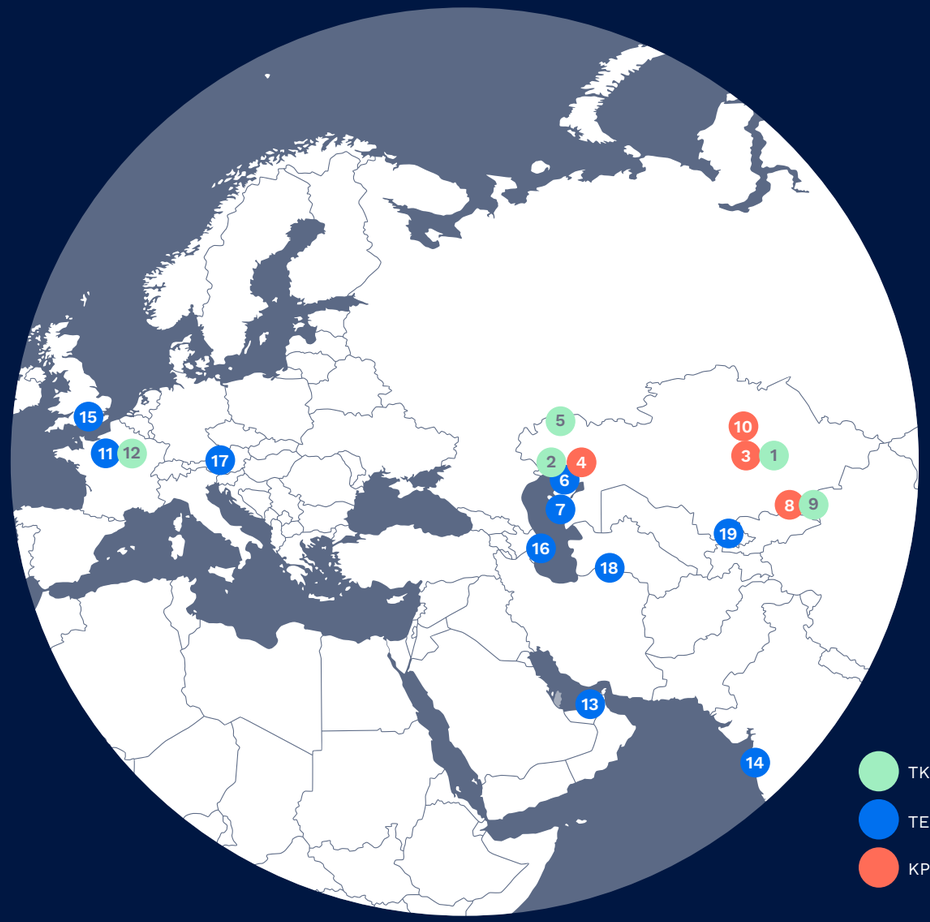
65
years of expertise

+5,000
projects completed in the region

1
Category 1 design license

A unique footprint
Serving the Caspian Region

Our flexible organization with diversified centers of excellences leverages our various group operating centres and extends a large and diversified pool of experts that caters to the key challenges associated with the developments in the North Caspian while ensuring the highest quality in our services. We aggregate such extensive and renowned capabilities with the key resources of our local partnerships to provide best in class Services to the local market.



Our local presence

1 KARAGANDA – KAZAKH-STAN TKJV HEAD OFFICES

TKJV LLP, a joint venture between Technip Energies and KPSP, has been created to serve the local Kazakhstani market as an engineering company capable of extending qualified services in oil & gas, energy and mining investments by providing and further developing local content in Kazakhstan in terms of local employment as well as an important transfer of skills, capabilities and know-how in engineering and project services.

2 ATYRAU – KAZAKHSTAN TKJV BRANCH OFFICE

3 KARAGANDA – KAZAKH-STAN KPSP HEAD OFFICES

KPSP LLP (Karaganda Promstroyproekt) is a long established Kazakh Design Institute with more than 60 years of experience of design and engineering services in Kazakhstan. With its original specialization in mining industry, KPSP LLP provides a full range of services at the stages of basic design and detailed design such as collection of initial data, design and adaptation of technical documentation, permitting and obtaining of expert examination approvals, field supervision and participation in the commissioning of construction projects.

4 ATYRAU – KAZAKHSTAN KPSP BRANCH OFFICE

5 AKSAI – KAZAKHSTAN TKJV BRANCH OFFICE

6 ATYRAU – KAZAKHSTAN TECHNIP ENERGIES SUPPORT OFFICE

7 AKTAU – KAZAKHSTAN GENESIS BRANCH OFFICE

Genesis' Atyrau office together with the London office have been working for Kazakh clients continuously since 2006 for conceptual work.

8 ALMATY – KAZAKHSTAN KPSP BRANCH OFFICE

9 ALMATY – KAZAKHSTAN TKJV BRANCH OFFICE

10 ASTANA – KAZAKHSTAN KPSP BRANCH OFFICE

Our international presence

11 PARIS – FRANCE TECHNIP ENERGIES OPERATIONAL HEADQUARTERS

Technip France has been active for more than 60 years in engineering and construction for the oil and gas and chemical industries.
Technip France is one of the major centers of excellence and expertise of the Technip Energies Group, capable of managing contracts from feasibility studies to full EPC/EPCM and of providing a wide range of services for the oil and gas chain, petrochemicals and other energy industries

12 PARIS – FRANCE TKJV REPRESENTATIVE OFFICE

13 ABU DHABI - UAE TECHNIP ENERGIES BRANCH OFFICE

Technip France Abu Dhabi Branch office is our center of excellence for artificial islands, brownfield works and pipeline designs.

14 MUMBAI - INDIA TECHNIP ENERGIES BRANCH OFFICE

15 LONDON – UNITED KINGDOM GENESIS ENERGIES HEAD OFFICES

Wholly owned subsidiary of Technip Energies, specialized in early project development phases.

16 BAKU – AZERBAIJAN TECHNIP ENERGIES BRANCH OFFICE

17 ROME - ITALY TECHNIP ENERGIES BRANCH OFFICE

18 ASHGABAT – TURKMENISTAN TECHNIP ENERGIES REPRESENTATIVE OFFICE

19 TASHKENT – UZBEKISTAN TECHNIP ENERGIES BRANCH OFFICE

Accelerating the energy transition for a better tomorrow

Through extensive experience, technologies, project management, integrated expertise and EPC capabilities, Technip Energies supported by KPSP continues to break boundaries and accelerate the journey to a low-carbon society.

We have defined 4 main pillars through which we are addressing the energy transition:

Strategic flexibility

We provide an architect mindset meeting our client needs from energy source to end-use.

- Feedstock agnostic - outstanding energy molecule transformations capabilities
- Technology-driven - integrate complex technologies, including proprietary, to meet project specificitiess and economic hurdles

Exceptional execution

We offer proven operating models, highly applicable to sustainable energy solutions.

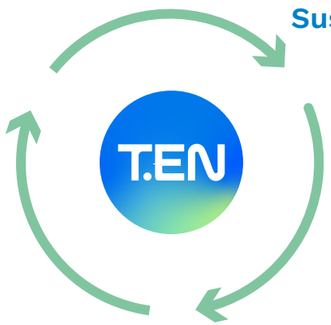
> **“Applying our core capabilities to today and tomorrow’s key energy challenges”**



LNG
Onshore and offshore liquefaction



Sustainable Chemistry
Biofuels, biochemicals, circular economy





Carbon-Free Energy Solutions
Green hydrogen, offshore wind, nuclear



Decarbonization
Energy efficiency, blue hydrogen, CCUS[1]

[1]CCUS: Carbon Capture, Utilization and Storage



From feasibility studies to project delivery and beyond

Project Phase	Scope	
Conceptual Studies	• Feasibility studies • Conceptual studies and select stage studies	• Master plan development
FEED	• Basic engineering	• Front-end engineering design
EPC	• Detailed engineering • Procurement • Inspection, expediting	• Construction and installation • Commissioning and startup
Process Technologies	• Hydrogen • Decarbonization • LNG & gas • Sustainable chemistry	• Ethylene • Refining • Petrochemicals and polymers • Fertilizers
PMC	• Specialist consultancy services • Owner's engineer	• Project management consultancy
Genesis	• Field development studies • Master plan development • Screening and assess stage studies • Energy management	• RAM and CFD studies • Flow assurance • Rigorous blowdown modelling



Natural gas treatment and liquefaction

- **LNG pioneer:** Designing and delivering a broad range of LNG plants, including references in Qatar with the seven largest LNG trains ever constructed.
- **Sour gas:** Designing more than 50 plants to remove carbon dioxide and sulfur components with a total installed capacity of about 20 BSCFD.
- **GTL:** Delivering plants using Sasol's "slurry phase distillate" technology (FEED for the Fischer-Tropsch with more than 60 percent commercial liquids conversion capacity worldwide).

Downstream

- **Refining:** We have been involved in the design and construction of more than 30 new refineries and major refinery expansions with seven new refineries built since 2000.
- **Ethylene:** We hold proprietary technologies and are a leader in delivering ethylene plants (steam crackers).
- **Petrochemicals / Fertilizers:** We provide process technology licensing and development of full EPC complexes for basic chemicals, intermediates and derivative plants.
- **Brownfield:** We revamp, upgrade and refurbish existing facilities with activity mainly based in our Abu Dhabi Center of Excellence.

Offshore and artificial islands

- **First-of-a-kind projects:** A marine contractor on the leading edge, our projects are typically first of a kind or record setting in water depth, size or complexity whether the largest FPSO /FLNG, the deepest spar or the heaviest open-sea floatover.
- Our services range from installation methods in the shallow waters of the Caspian Sea to delivery of modularized topside integrated decks.
- We develop artificial islands including some with ice-resistant technologies and offer innovative float-over operations.

The North Caspian Offshore Technologies Toolbox

We have developed a Swiss-knife of offshore technological solutions that tackles the elements related to the challenges and developments in the North Caspian based on our collective state of the art in-house expertise to improve CAPEX operability and extends certainty in delivery of our offering to our clients.

Learn more

Weathering Arctic conditions

- Participating at the early phases of various projects in the Northern Caspian
- Weathering extreme cold environments (Yamal LNG)
- Offering robust solutions in technology, execution strategy and cost and schedule

Expertise in modularization

- Know-how in all aspects of modularization, including working with Asian yards and references of more than 2,000 fabrication partners
- Optimized designs enabling a significant reduction or mitigation of construction costs
- A comprehensive approach offering pre-commissioning and commissioning at fabrication yards, optimization, hook-up minimization, reduction in structural steel tonnage and risk mitigation of planning schedules and construction.

Project management consultancy

We have long-standing experience in delivering PMC services, notably in the Caspian Region. We have been successful in supporting our customers' business objectives, consistently delivering projects with outstanding safety and environmental performance that meet cost, schedule and quality targets.

A dedicated and structured organization

We offer our clients a dedicated and structured organization and a robust operational business model to deliver efficient and cost-effective project management services.

Our team's experience and competency combine to add value to our clients' projects in areas such as

- **Project management**
  We manage and integrate the Engineering, Procurement and Construction phases of the project, in particular for large and complex capital projects that are often located in remote areas. Acting as the single point of contact, we consolidate all contractors and subcontractors, often from diverse cultures and backgrounds, to deliver a successful project.
- **Contracting experience and management**
  - Our commitment to quality, safety, health, and the environment produces outstanding results.
  - Our EPC contracting experience gives our teams unique insights and expertise.
  - Each project management consultancy team is equipped to optimize designs and recommend realistic execution plans.
  - Proven software tools facilitate monitoring and forecasting of future performance for an effective management of project schedules and cost.
- **Resourcing strategy**
  We identify personnel with the necessary experience, maximizing the use of local/regional staff.
- **Project controls**
  We draw on our EPC experience and our detailed understanding of project costs and schedules to enhance our project management and control capabilities and provide effective monitoring.

An integrated approach

Our project management consultancy business unit offers wide-ranging services to manage all project phases: feasibility studies, basic design and FEED, detailed engineering and procurement, construction, commissioning, and start-up. We team up client and Technip Energies personnel as needed, with no duplication of roles.

Timely mobilization and global sourcing

We understand the challenges clients face in awarding contracts "as planned". Consequently, we mobilize our project teams immediately following a contract award. Our staffing process coordinates global sourcing, identifies skilled personnel, and submits qualified candidates. Our global presence enables us to mobilize people with the right experience in the right place at the right time.

> **"A proven track record in helping our clients meet their safety and environmental targets."**

Genesis advisory

Genesis is a market-leading advisory company focused on providing technical and advisory services to the global energy industry. Our services are used during planning and development phases of projects and in the execution of subsea, onshore and offshore engineering projects.

Genesis has extensive global experience across the hydrocarbon, renewable and alternative energy sectors, operating in greenfield and brownfield and in subsea, offshore and onshore settings. Our highly sophisticated teams, tools and processes offer robust support to our clients, helping them to derisk opportunities and maximize value.

Genesis develops innovative solutions for the global energy industry by leveraging our core engineering and techno-economic skills. We help achieve world-class performance by providing expertise and innovative methods and tools to realize our maximum potential.



> **"Our extensive experience across the energy industry makes us your trusted advisor on your journey to a sustainable future."**
>
> **Christophe Malaurie,** SVP Genesis

Developing local content

Sustainability is one of Technip Energies' foundational beliefs and a cornerstone of our core values. It reflects how we do business and is something we will never compromise. We act responsibly and always consider our impact on the planet, people and communities. Our sustainability commitment is to promote a continuous, positive and responsible contribution for all.

For a typical development, we maximize the national workforce participation across the execution of the project. We encourage sustainable local employment, transfer of knowledge, and use of local suppliers and services wherever possible.

We develop local content management plans with stated objectives such as:

- Endeavor to use Local content wherever possible
- Identify and implement appropriate efforts to develop local workforce and local suppliers including SMEs

The local content management plans define the local content development strategies that are structured around:

- Employment and training
- Local market and sourcing
- Local community engagement Programs

Technology and knowledge transfer are achieved by:

- Collaboration with local universities
- Trainee programs at our operating centers for engineering and project management support personnel
- Community engagement programs
- Education sponsorship
- Medical facility scheme
- Sustainables Skill training (eg computer skills)

Training generally includes:

- Technical training
- Supervisory training
- HSE training
- Quality management training
- Basic & advanced computer literacy & training
- HSE and quality training and induction programs for subcontractors

TKJV LLP commitment

LOCAL MANHOURS EXPENDITURE

TKJV is commited to expanding the use of local competences to blend the necessary experience of the international experts and the passion and strong interest of the local competencies and engineering design teams. Such a blend makes TKJV one of the biggest contributors to local content and a good choice for strengthening the knowledge and experience of local competencies.

JOB TRAINING FOR LOCAL PERSONNEL

TKJV implements on-the-job training to increase local competences, international exchange, networking and cooperation, knowledge and experience transfer to local professionals. Training program modules include Introduction to the oil and gas industry; Introduction to energy industry & project execution, upstream & midstream industry & offshore technologies and solutions applicable in Kazakhstan, health, safety, quality & environment conditions in Kazakhstan and other modules that are addressed in the training plan.

REGULATORY & PERMITTING

considering our blend of International and local competencies, TKJV has the necessary cornerstones to comply with the Codes and Standards of Kazakh regulations, while offering all the possible advantages from the applicable International Codes and Standards relevant to the scope of facilities to be engineered during the design phase.



Key project references

FERRY COMPLEX
- Contract: EPC
- Award: 2014
- Delivery: 2016
- Client: NC Kazakhstan Temir Zholy JSC)

Construction of ferry complex for multifunctional passenger and freight ferries in Kuryk port of Mangystau Region. Port area: 40 hectares. Cargo handling. Capacity: 4 mtpy expandable up to 13.9 mln TPY

SOCAR AZERIKIMYA COMPLEX
- Contract: EPC services
- Award: 2016
- Delivery: 2019
- Client: SOCAR

The scope of work includes the modernization of the EP-300 steam cracker with construction of new cracker furnaces licensed by Technip Energies, the installation of a new refinery dry gas treatment unit, new ethylene and propylene storage and related utilities and off-sites facilities.

SHAH DENIZ
- Contract: EPC
- Award: 1999
- Delivery: 2016
- Client: BP

Technip Energies delivered a TPG500 platform, a proprietary self-elevating jackup, for the Shah Deniz gas condensate field located 70km southeast of Baku, Azerbaijan, in the Caspian Sea. Topside weight: 22,000 T.
10 billion cubic meters of gas per annum.

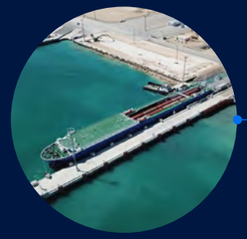
ADNOC OFFSHORE
- Contract: FEED
- Award: 2017
- Delivery: 2018
- Client: ADNOC Offshore

FEED for Dalma Gas Development Project for six offshore pipelines ranging 6” to 24” with a combined length of 190 km. Includes small onshore pipeline section and shore approach at Arzanah and Zirku islands. H2S content: -17,000 to 35,000 ppmv in gas.



KASHAGAN, AKTOTE & KAIRAN FIELDS
- Contract: Conceptual studies, pre-FEED and debottlenecking
- Award: 2020
- Client: NCOC

KAZAKHSTAN



KAZAKHSTAN



AZERBAIJAN



AZERBAIJAN



UAE



RUSSIA

YAMAL LNG
- Contract: EPC
- Award: 2014
- Delivery: 2018
- Client: Novatek, Total, CNPC and Silk Road Fund

Technip Energies delivered a fully-modularized LNG facility and one of the largest industrial undertakings in the Russian Arctic. 3 LNG trains. Capacity: 16.5 mtpa. 480,000 tonnes of modules built at 10 fabrication yards.



UZBEKISTAN

UZBEKGTL
- Contract: PMC
- Award: 2017
- Client: Oltin Yol

Gas-to-liquids plant
Grassroots GTL plant.



TURKMENISTAN

MAGTYMGULY
- Contract: EPCIC
- Delivery: 2011
- Client: Petronas



UAE

UPPER ZAKUM 750K
- Contract: FEED and EPCI
- Award: 2012
- Delivery: 2015
- Client: ZADCO

Technip Energies completed this major contract for the Upper Zakum 750K field that was divided into four artificial islands of production. Offshore structures: 21,000 T. Modularized piperacks & bridges: 3,000 T.



UAE

BOROUGE 4 PETROCHEMICAL COMPLEX
- Contract: FEED, EPC
- Startup: 2009
- 1,500 KTA ethane cracker unit

Technip Energies performed the FEED in a competition with Linde. The EPC contract was awarded to the Consortium Technip Energies - TARGET (UAE Construction Co). ECU will be part of the 4th olefins and polyolefins complex expanding the Borouge Ruwais plant to approximately 6 MTPA polymer production. Borouge 4 ethane cracker is designed to accommodate a post-combustion CO_2 capturing unit (CCU).

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