



Tengizchevroil Fact Sheet

Year-end 2019

History and Ownership

- Tengiz, the world's deepest producing super giant oil field, was discovered in 1979.
- The Tengizchevroil (TCO) partnership was formed on April 6, 1993, between the Republic of Kazakhstan and Chevron.
- Current partners are Chevron, 50 percent; KazMunayGas, 20 percent; ExxonMobil Kazakhstan Ventures Inc., 25 percent; LukArco B.V., 5 percent.

Production and Reserves

- Estimated oil in place in the Tengiz field is 3.2 billion metric tonnes (25.5 billion barrels) with 200 million metric tonnes (1.6 billion barrels) in the Korolev field.
- Total recoverable crude oil in the Tengiz and Korolev fields is estimated to be 890 million to 1.37 billion metric tonnes (7.1 to 10.9 billion barrels).
- The areal extent of the Tengiz reservoir is large, measuring 20 kilometers (12 miles) by 21 kilometers (13 miles).
- TCO completed its Sour Gas Injection and Second-Generation Plant (SGI/SGP) expansion project in 2008, which brought daily production capacity to approximately 75,000 metric tonnes per day (600,000 barrels) of crude oil and 22 million cubic meters per day (750 mmscf) of natural gas.
- Crude production in 2019 was 29.79 million metric tonnes (237.7 million barrels).

Health, Safety and the Environment

- TCO has invested over \$3.1 billion since 2000 in environmental protection activities.
- Since 2000 total air emissions generated per ton of oil produced have decreased by 73 percent.
- TCO's gas utilization rate in 2019 was 98.7 percent.
- Total TCO water reuse rate in 2019 was 40 percent. TCO continues its water conservation efforts by recycling domestic wastewater effluent, as well as treating and reusing it for industrial purposes.
- TCO sends more than 35 types of waste for recycling. In 2019, total TCO waste reuse/recycling rate was 64 percent.

Product Sales

- In 2019, TCO sold over 1.3 million metric tonnes of LPG, 7.9 billion cubic meters of sales gas and over 2.6 million tonnes of sulfur.

Benefits to Kazakhstan

- From 1993 through 2019, TCO made direct financial payments of over \$146 billion to Kazakhstani entities, including Kazakhstani employees' salaries, purchases of Kazakhstani goods and services, tariffs and fees paid to state-owned companies, profit distributions to Kazakhstani shareholder and taxes and royalties paid to the government.
- In 2019, direct payments to the Republic of Kazakhstan totaled more than \$10.6 billion.
- In 2019, TCO spent \$4.6 billion on Kazakhstani goods and services, including \$3.25 billion for FGP-WPMP.
- TCO has invested more than \$32.9 billion on Kazakhstani goods and services since 1993.

Workforce Development

- Kazakhstani citizens hold 80 percent of positions in TCO's Base Business and FGP-WPMP. Excluding the FGP-WPMP workforce, Kazakhstani citizens hold 89 percent of TCO positions compared to 50 percent in 1993.
- Kazakhstani managers and supervisors represent 72 percent of the TCO managerial workforce in Base Business and FGP-WPMP. Excluding the FGP-WPMP, Kazakhstani managers and supervisors hold 80 percent. Ongoing training and development programs exist to support the advancement of employees to positions of increasing responsibility.



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Community Outreach

- Since 1993, TCO has invested over \$1.9 billion to fund social projects and programs in Atyrau Oblast for the community and employees.
- In 2019, TCO budgeted \$25 million for Egilik social infrastructure program, the majority of which was spent for construction of kindergartens, schools and other social facilities in Atyrau Oblast.
- In 2019, TCO spent over \$2 million as part of its Community Investment Program on projects to help improve the quality of health, education and develop social entrepreneurship both in Atyrau and Mangistau Oblasts.

Future Growth Project - Wellhead Pressure Management Project

General Information

- In 2016, TCO Partners announced approval for the final investment decision of the Future Growth Project - Wellhead Pressure Management Project (FGP-WPMP), the next major expansion of the Tengiz oil field.
- Based on TCO's highly successful SGI/SGP expansion project, FGP will expand production by approximately 12 million tonnes per year/260,000 barrels per day to about 39 million tonnes per year/850,000 barrels per day.
- WPMP will keep the existing Tengiz plants full by lowering the flowing pressure at the wellhead and then boosting the pressure to the inlet requirements of the six existing processing trains.

Kazakhstani Content

- More than 41,000 Kazakhstanis working on FGP-WPMP in country, which is 91 percent of the total project workforce in Kazakhstan.
- TCO has engaged Kazakhstani entities to participate in FGP-WPMP in engineering, procurement and fabrication services and has pre-screened over 2,200 Kazakhstani companies and pre-qualified more than 1,200 companies. FGP-WPMP KC Spend since project start reached almost \$8.4 billion.

Project Progress Worldwide

- The project progress is more than 74% complete.
- Engineering overall 97% percent complete. Procurement progresses to 98% complete overall.
- Fabrication of all 75 pre-assembled pipe-racks was completed at ERSAL fabrication yard. Pipe-racks were successfully delivered to Tengiz.
- Fabrication of all 5 Gas Turbine Generators (GTGs) was completed in Avenza fabrication yard, Italy. All 5 GTGs were delivered to Tengiz.
- Fabrication of pre-assembled units continues in South Korea. 60 modules sailed away from Korea through December 2019. Fabrication at Shinhan fabrication yard is complete.
- 2019 Sealift successfully completed with 235 large modular cargoes delivered to Tengiz.

Project Progress in Tengiz

- In Tengiz, provision of critical services continues by Tengiz General Services Team. Critical Site Services construction and operations supported Tengiz Peak manpower in 2019. Warehouses, Laydown Area & Mechanical, Electrical and Instrumentation (ME&I) Contractor Temporary Construction Facilities in service.
- Construction of Integrated Operations Control Center (IOCC) is progressing. This control room will be the hub for TCO's future integrated operations.
- Control and Power: Core Substation is in operation. Successfully executed Phase 4 cutover.
- Gathering system achieved first oil on 30 October and reached 10 wells flowing for High Pressure Early Oil.
- Civils and underground works progressing at 3GP. All 44 PARs and all Utilities Modules are on foundation.
- At 3GI all Area 45 Modules (Utilities Area) are on foundation and module Integration work commenced. All 29 PARs are on Foundation.