

BARZAN GAS PROJECT

Fuelling our future

The Barzan Gas Project is a catalyst for the future development of Qatar. Following the guidance, leadership and direction of His Highness Sheikh Hamad Bin Khalifa Al Thani, the Emir of Qatar and His Highness Sheikh Tamim Bin Hamad Al Thani, the Heir Apparent on the vision for Qatar's long term development, five leading figures in the energy sector capture the significance of the Barzan Gas Project to Qatar and its residents.

A vital role to play

"Barzan... will play a vital role in fuelling our industrial and human development"



His Excellency Dr Mohammed Bin Saleh Al Sada
Minister of Energy and Industry
Chairman of Qatar Petroleum
Chairman of RasGas Company Limited

The Barzan Gas Project is strategically important for the long-term sustainable development of Qatar. Gas from the new plant will be produced by Qatari companies from Qatari natural resources in the North Field, and it will be used to support the future of Qatar. Barzan will meet the country's growing need for clean-burning natural gas, and so will play a vital role in fuelling our industrial and human development. Every Qatari citizen and every resident of Qatar will feel the benefits of the Barzan Gas Project.

The reasons for the growth in demand for energy are clear. As we build a new airport and sea port, as we embark on major infrastructure projects in transport, health and education, and as we prepare for the FIFA World Cup in 2022, additional power generation and other industrial development will be needed.

In supplying sales gas to the country's power and water sectors, the Barzan Gas Project will facilitate the development of Qatar as expressed by His Highness Sheikh Hamad Bin Khalifa Al Thani, the Emir of Qatar, in the Qatar National Vision 2030 and the Qatar National Development Strategy 2011–2016. Barzan Gas is fully aligned with the four pillars that underpin these two documents: human development, social development, economic development and environmental development. When the RasGas operated Barzan Gas Project two gas processing trains come on stream in 2014 and 2015, they will further secure the socio-economic gains we have made over the last two decades. With the Barzan Gas Project in place, the future for Qatar is bright.



A proud moment for RasGas

Hamad Rashid Al Mohannadi
Vice Chairman of the Board, Qatar Petroleum
Managing Director, RasGas Company Limited

It is a great honour for RasGas to be involved in such a large-scale project, that will contribute so strongly to the long-term sustainable development of Qatar. We are very proud to have been entrusted with this responsibility. RasGas has world-class management and professional teams who have shown, time and again, that they can meet project development goals safely, within time and budget, and can operate complex energy facilities to the highest standards.

The Barzan Gas Project is one of the most technically innovative ever undertaken in Qatar. It will use proprietary technology to recover natural gas liquids (NGL) and remove nitrogen from the sales gas stream, thus achieving the sales gas specification required by our customers. The integrated NGL recovery and nitrogen rejection unit will be the first application of this technology in Qatar. The plant will use a closed-loop sea water cooling system minimising the use of sea water, and will be fitted with 'dry low NOx' technology that minimises emissions of nitrogen oxides. The environmental, socio-economic and health impact assessment (ESHIA), we conducted in the project's early stages has set a new benchmark for environmental assessments in Qatar.

When the two Barzan Gas processing trains are in operation, they will combine with other RasGas facilities to create a total production capacity of around 11 billion standard cubic feet of gas per day. This will make RasGas one of the largest single gas processors in the world, and will increase the wider benefits – such as jobs, opportunities for suppliers, and revenues for government, that we bring to the Qatari economy.

"The Barzan Gas Project will enable us to develop more Qatari nationals, bringing sustainable benefits to the community"



Long and successful relationship

Andrew P. Swiger
Senior Vice President
Exxon Mobil Corporation

The Barzan Gas Project represents another major step in our long and successful relationship with Qatar Petroleum. This new domestic gas project will support the economic growth of Qatar and create and deliver sustainable long-term benefits for the Qatari community.

ExxonMobil is proud of our partnership with Qatar Petroleum and of our participation in investments across the entire value chain, enhancing the development of Qatar's natural resources. The Barzan Gas Project is a strategic investment for the country in its domestic gas production and it is a strategic investment for ExxonMobil in Qatar.

The Barzan Gas Project's goal is to provide sufficient gas to the State of Qatar's domestic market to meet the country's growing need for clean burning natural gas well into the future. It will play a vital role in helping fuel the growth of industrial and human development in Qatar and it will help fuel the success of future projects.

Qatar Petroleum and ExxonMobil, through RasGas, the developer and operator of Barzan, will build a robust world-class venture. Qatar Petroleum and ExxonMobil are bringing teamwork and technology together through this large-scale joint venture project that will support the economic growth and the well-being of Qatar. Developing people, creating and delivering sustainable, long term benefits for local suppliers and communities are vital to success.

"The Barzan Gas Project represents another major step in our long and successful relationship with Qatar Petroleum."



Qatar's global profile

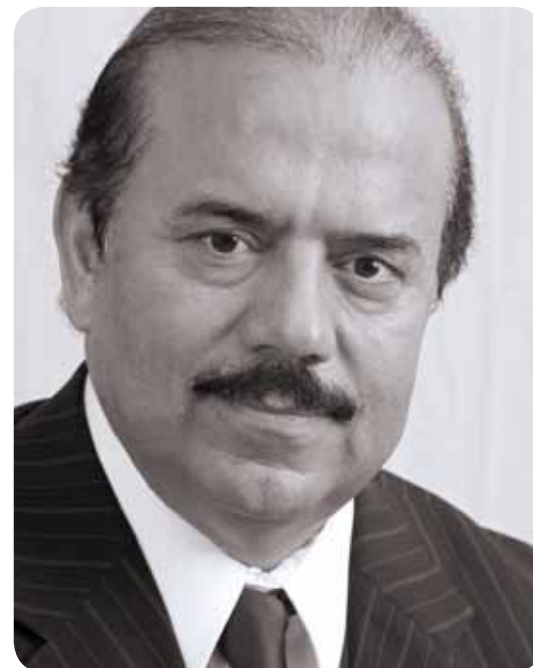
Saad Sherida Al Kaabi
 Director of Oil and Gas Ventures, Qatar Petroleum
 Member of Qatar Petroleum Board
 Chairman of the Barzan Gas Project Steering Committee

Qatar currently produces around 20 billion standard cubic feet per day of gas to meet local demand and international gas and liquefied natural gas (LNG) markets. Part of this production is produced by Al Khaleej Gas and North Field Alpha projects and is delivered by pipelines for local consumption. A substantial part is liquefied to produce LNG for our 77 million tonnes per annum portfolio. When the two Barzan Gas processing trains are fully operational by 2015, we will have achieved our target of producing about 23 billion standard cubic feet per day of gas from the North Field. This will be more than four million barrels of oil equivalent.

The State of Qatar will benefit from the Barzan Gas Project in terms of powering Qatar's development and the growth of its infrastructure. Kahramaa plays a significant role in planning the requirements of the State for electricity and desalinated water. Kahramaa ensures, through its coordination with Qatar Petroleum, the timely supply of gas to power generation and water desalination plants.

The benefits of Barzan Gas Project to Qatari companies, and the wider economy does not stop at sales gas. Among the project's associated products will be ethane for use as a feedstock in the local petrochemical industry, untreated field condensate for processing at Laffan Refinery as well as LPG and plant condensate for export. Barzan Gas Project is a multi-faceted project that brings extensive benefits to Qatar.

"The State of Qatar will benefit from the Barzan Gas Project in terms of powering Qatar's development and the growth of its infrastructure"



Experience and expertise

Nafez Bseiso
 RasGas Venture Group Manager

The Barzan Gas Project is an immense undertaking. Offshore, it involves drilling and developing 30 wells, 10 each at three unmanned wellhead platforms. At Ras Laffan Industrial City, the dedicated plant will include inlet receiving slug catchers, condensate and water treatment facilities, gas treatment (including sulphur recovery) facilities, by-product (including ethane and LPG) recovery facilities, and a nitrogen rejection unit.

With reservoir-to-customer engineering projects of this scale there are always many challenges, but RasGas has shown in project after project that it has the expertise and the determination to anticipate and overcome them. Our first priority is the safety of our people. We are committed to executing the project with zero tolerance for injuries, and we have safety management programmes in place to help us achieve exactly that. Environmental excellence is another of our highest priorities, from initial engineering designs to flare minimisation during start-up, and from marine protection initiatives during pipeline-laying to implementing lessons learned during previous projects.

In January this year we awarded the onshore and offshore engineering, procurement and construction contracts to JGC of Japan and Hyundai Heavy Industries of South Korea. But this was only the first step in the process. Qatari companies submitted the most competitive bids for the five major construction subcontracts, which were awarded to them in the summer. Further, we have ensured the involvement of new and experienced Qatari people through both contractors' and RasGas' own development schemes. There are many ways in which the Barzan Gas Project will benefit Qatar and its people.

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