



WINTERSHALL DEA

PARTNER IN THE MIDDLE EAST

Partner for gas in Abu Dhabi

Sitting atop some of the world's largest oil and gas reserves, the United Arab Emirates (UAE) is a globally important centre for energy production. In 2018 Wintershall Dea chalked up a major success: a stake in the Ghasha Concession, the largest gas, oil and condensate fields yet to be developed in the UAE. Wintershall Dea holds a 40 year, 10 per cent stake in the project in partnership with the Abu Dhabi National Oil Company (ADNOC) as operator, as well as ENI, OMV and Lukoil. The construction of artificial islands and early civil works onshore for the Hail & Ghasha East development are ongoing, with more than 80% completed. A revised Front-End Engineering Design (FEED) study is nearing completion, incorporating multiple optimisation measures to increase the project's efficiency. The gas produced will be instrumental in providing energy to the UAE by around the middle of the decade.

The Ghasha project is a strategic priority in a country with rapidly growing demand for gas. The natural gas produced is intended for use in the UAE, and will make a major contribution to meeting ADNOC's 2030 vision of a sustainable and economic gas supply. Through its investment in Ghasha Wintershall Dea intends to establish a strong and long-lasting presence in Abu Dhabi in partnership with ADNOC.



Wintershall Dea is partner to ADNOC in the Ghasha Concession where several offshore fields are in development.

Technology partnership for Ghasha

Wintershall Dea drilled two appraisal wells in the Shuwaihat sour gas field, in 2015 and 2017.



To keep up with growing gas demand, more technically complex fields like the partially ultra-sour Ghasha concession fields must be developed. Sour gas is natural gas containing significant amounts of hydrogen sulfide (H₂S). The high toxicity of hydrogen sulfide creates challenges. Processing facilities are needed to remove it from the produced gas, while production plants and pipes must be designed to cope with hydrogen sulfide's corrosive nature. The strictest safety standards must

be in place to prevent leaks. Since discovering its first sour gas reservoir in 1961, the Düste field near Barnstorf in Germany, Wintershall Dea has been a pioneer of sour gas production. In doing so, Wintershall Dea has developed technical expertise from plant design to operational safety that makes it an attractive partner for the Ghasha project.

Beyond sour gas, the Ghasha concession offers other challenges, such as a sensitive environment and the need to construct artificial islands. In meeting these challenges, Wintershall Dea can draw on its experience

at Mittelplate: An offshore oil production site based in the Wadden Sea National Park in north-western Germany. Since 1987 the company has produced oil at Mittelplate incident free and to the strictest environmental and safety standards, using a purpose-built artificial island and applying extended reach drilling.

Whether drilling technically demanding wells, safely producing sour gas, or knowing what counts in ecologically sensitive areas: Wintershall Dea is bringing expertise to the UAE.

Making a lasting contribution in the United Arab Emirates

Wintershall Dea is proud to be a partner to ADNOC, part of the DNA of the Abu Dhabi economy. The company takes its responsibilities as a partner and guest in the country seriously, focusing not just on investments, but on the wider in-country value it can offer to the UAE, e.g. by helping to achieve CO₂ reduction targets or by sharing expertise attained in Germany and other markets in areas like digitalisation and Industry 4.0.

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Questions?

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Wintershall Dea in the UAE: at a glance

- **Country entry:** 2010
- **Offshore:** Ghasha
- **UAE's gas reserves:** 5.9 trillion cubic metres*

* Source: BP Statistical Review of World Energy 2021

