



wintershall dea

ARGENTINA

WINTERSHALL DEA

DIVERSE RESERVES, BROAD PORTFOLIO

40 years of experience

Wintershall Dea has been successfully involved in Argentina for more than 40 years. Here the company produces hydrocarbons, especially natural gas, and one of the largest gas producer in the country. The company is active in the western provinces of Neuquén and Mendoza as well as in the south, onshore and offshore in Tierra del Fuego. Wintershall Dea began its commitment in Argentina by acquiring its first concessions in Tierra del Fuego. The wholly owned subsidiary Wintershall Dea Argentina has interests in about 20 oil and gas fields in Argentina and produces around 69 mboe per day (2020).

Tierra del Fuego: Thriving partnership for four decades

Off the coast of Tierra del Fuego, Wintershall Dea has been working successfully with its partners for many years to supply Argentina with energy. The region forms the backbone of the country's energy supply – today around 20 per cent of Argentina's natural gas is produced in the CMA-1 region alone. About 20 million cubic metres of natural gas are produced there every day – including production from the Carina, Aries, Vega Pléyade and other smaller fields, in which Wintershall Dea has a 37.5 per cent stake. Other partners in CMA-1 are Total (operator), and Pan American Energy.



Wintershall Dea Argentina's wide-ranging portfolio includes promising shale gas blocks in Neuquén as well as offshore interests off the coast of Tierra del Fuego.

Record production after expansion of Cañadon Alfa plant

In February 2016, Wintershall Dea, together with Total and Pan American Energy began the production in the Vega Pléyade natural gas field. The world's southernmost gas producing platform makes a significant contribution to Argentina's gas supply. An underwater gas export pipeline of 77-kilometre-long connects the platform to the onshore treatment facilities in Río Cullen on the coast of Tierra del Fuego.

An expansion of the Cañadon Alfa onshore treatment facility on the coast of Tierra del Fuego was finalized in May 2019. Additionally, to the two newly installed trains of low-pressure compressors, a third pipeline was constructed, linking the Río Cullen plant with Cañadon Alfa's gas treatment and export facilities. The expansion project contributes to increasing production from the CMA-1 area and optimizing the potential of the offshore gas fields. In June 2019 the CMA-1 Consortium achieved a record production in Tierra del Fuego, with a volume of 22.8 million cubic meters gas per day thanks to the new installations.

Natural gas is produced from the CMA-1 area.



Malvinas: Technologically demanding blocks in the Argentine Sea

In May 2019, Wintershall Dea and the partners Tullow (operator) and Pluspetrol acquired two exploration licences in the promising Malvinas West basin, about 350 kilometres off the coast of Tierra del Fuego. The company is thus participating in another offshore project in Argentina. The blocks are located at water depths of up to 500 metres and together cover an area the size of 10,500 square kilometres.

Mendoza province: Oil discovery in block CN-V

In the south of the Mendoza province, Wintershall Dea Argentina holds the exploration permit for the CN-V block (Wintershall Dea 50%, GeoPark 50%), and is the operator. In spring of 2015, Wintershall Dea carried out exploration activities in Block CN-V and investigated 180 square kilometres with a 3D seismic survey. In 2017, an exploration well struck oil in the sandstone formation. A second exploration well was drilled in 2018 to test additional productive layers.

Operator of the Vaca Muerta Formation

Argentina is one of the most important growth regions for unconventional oil and gas production outside of North America. It contains the second largest shale gas resources of the world and the fourth largest shale oil resources. Argentina's shale gas production is currently concentrated in the Neuquén basin in western Argentina.

Wintershall Dea has been active in conventional production of natural gas and crude oil in the Neuquén province for more than 20 years and is thus familiar with its geology.

Building on the gained expertise, the company is participating in the Aguada Federal, Bandurria Norte, Aguada Pichana Este and San Roque blocks in the promising Vaca Muerta Formation. Shale gas or shale oil projects are currently underway in all blocks. Wintershall Dea acquired the **Aguada Federal** block in 2014 where it is operator. This block is developed with our partners ConocoPhillips.

The promising shale rock of the Vaca Muerta formation lies at depths between 2,700 and 3,000 metres. Two vertical exploration wells in 2015 were followed by six horizontal wells of different length.

Wintershall Dea acquired the Bandurria Norte block in Neuquén province in 2015 and holds a 50% working interest. Prior to the licence split, a vertical and one horizontal well had been drilled. Three additional horizontal wells were drilled in the 105 square kilometre block in 2017.

In July 2019 Wintershall Dea has signed a Purchase Agreement with ConocoPhillips to jointly develop the Aguada Federal and Bandurria Norte blocks in the central Argentine province of Neuquén.

In October 2018 Wintershall Dea was granted permission to export gas from the San Roque and Aguada Pichana Este blocks to Chile.



Technological Experiences

The exploration and production of unconventional resources involves major technological challenges. Wintershall Dea has decades of experience in environmentally compatible, efficient production from complex reservoirs and is, as a result of its special technological expertise, ideally positioned to succeed these challenges.



Neuquén: 25 years of experience

Wintershall Dea has a 27.3 per cent interest in the conventional reservoirs of Aguada Pichana East block – (operator Total 27.3%, YPF 27.3%, PAE 18.1%). In addition, the company holds a 22.5 per cent interest in the Vaca Muerta shale gas play from the same block (operator Total 41.0%, YPF 22.5%, PAE 14.0%).

In the 761 square kilometre area in 2018, 7.4 million standard cubic metres of gas were produced each day. Following the promising results from ten wells in the shale gas pilot project, other 20 wells were drilled starting 2017. The results led to an additional 40 wells currently being carried out.

The San Roque block (Wintershall Dea 24.7%, operator Total 24.7%, YPF 34.1%, PAE 16.5%) extends over 1,040 square kilometres and lies northeast of Aguada Pichana. The San block has a high unconventional potential in the volatile oil to black oil windows. Four pilot wells have been drilled and are in production.

The Neuquén Basin is one of the most promising oil and gas production areas in the world.



Responsible partner

Wintershall Dea has been working in Argentina for four decades and is firmly rooted in the country. The company believes that close interaction and good cooperation between stakeholders are of great importance in order to produce the existing energy resources in a sustainable manner.

Wintershall Dea is also socially and culturally active in the Argentine regions in which the company operates and supports numerous local projects, focusing on educational and cultural activities. The company is assuming responsibility as a reliable partner.

Wintershall Dea in Argentina: at a glance

- **Country entry:** 1978
- **Onshore:** Neuquén, Mendoza, Tierra del Fuego
- **Offshore:** Tierra del Fuego
- **Argentina's gas reserves:** 3 billion cubic meters*
- **Argentina's oil reserves:** 2 billion barrels*
- **Production (2020):** 69 mboe per day

* Source: BP Statistical Review of World Energy 2019

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Questions?

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