



wintershall dea

DVALIN

WINTERSHALL DEA

# EFFICIENT SUBSEA OPERATION FROM DISCOVERY TO PRODUCTION

## Gas production on the seabed

Wintershall Dea is the operator of the Dvalin gas field, which consists of four subsea wells. The field has been developed as a tie-back to the Equinor operated Heidrun host platform.

A four-slot template has been installed on the seabed at a depth of approximately 400 metres. Production strings and umbilical cables will be connected to the Heidrun platform. On the Heidrun platform, two modules, one 400 tonne utility module (MEG and methanol) and one 3,500 tonne gas processing and compression module have been installed. The utilisation of the existing infrastructure enables a cost-efficient and sustainable extraction of the resources.

As planned, first gas flow was achieved in late 2020. However, during the commissioning phase, measurements showed that the gas flow contained a level of mercury that exceeded the maximum amount allowed in the system. An onshore technical solution is being executed and start-up is expected by late 2022. The Dvalin reserves remain unaffected by the mercury issue.



The gas field was discovered in 2010 and is located in the Norwegian Sea, 259 kilometres north of Kristiansund

## Filling the reserve pipeline

The Dvalin gas field is located 259 kilometres north of Kristiansund, 15 kilometres northwest of the Heidrun field and 35 kilometres south of the Skarv field in the Norwegian Sea. The estimated recoverable reserves from the field amount to around 113 million barrels of oil equivalent (as per PDO). The gas from Dvalin will be transported to the Heidrun platform via pipeline. From there, it will be sent to the Polarled gas transportation system via a 7.5 kilometres-long pipeline, before it will be further processed to dry gas at the Nyhamna onshore gas terminal. Finally, the gas will be transported via Gassled to the market.

The Dvalin field is the first gas field in this oil-rich area and will be connected to the southern part of the Polarled pipeline. It thus opens a new gas province on the Norwegian Continental Shelf. The partners, with Wintershall Dea as the operator, are investing 10.7 billion kroner (around 1 billion euros) in the development of the Dvalin field. The project partners are Petoro (35%) and Sval Energi (10%).



The heavy lifting vessel Saipem lifts the Dvalin module onto the Heidrun platform.

During 2021, Wintershall Dea discovered additional volumes in the nearby Dvalin North field, which are expected to be tied into Dvalin and benefit from existing infrastructure.

## Innovation and determination

In the 1980s, the Dvalin field was not considered promising, as little exploration success in the area was achieved by other companies. As time passed, however, innovative ideas and approaches revealed new findings. In 2007 the partnership with DEA as operating company was granted the PL 435 licence.

The first gas discovery was reported in September 2010, when the first exploration well was drilled on the Dvalin field. A gas-bearing reservoir with a thickness of 150 metres was encountered in the Fangst formation (Dvalin East). A second gas-bearing reservoir with a thickness of 140 metres was discovered in 2012 with a second exploration well (Dvalin West).

## Commitment to Norway – Commitment to Europe

Wintershall Dea has been active in Norway for almost 50 years and is active in exploration, development, and production on the Norwegian Continental Shelf, primarily focussing on areas with existing infrastructure and hence yielding synergies with nearby fields. The Dvalin development is one example on how the company is continuously expanding its activities in Norway.

With a daily production of around 159,000 barrel of oil equivalents in 2021, and now one of the leading gas and oil companies in the country, Wintershall Dea is aiming to further increase these volumes over the next years.

The Dvalin field is a major investment and an important part of Wintershall Dea's growth strategy in Norway. The development of the Dvalin field is testimony to the company's systematic growth on and belief in the Norwegian Continental Shelf. As the operator of Dvalin, Wintershall Dea makes another important commitment to the German-Norwegian energy partnership and secures Europe's stable supply of energy.

## Facts

**Licence:** PL 435

**Location:** 259 kilometres north of Kristiansund and 15 kilometres northwest of the Heidrun field and 35 kilometres south of the Skarv field in the Norwegian Sea.

**Geology:** Reservoir depth is 4,200 metres Middle Jurassic Garn, Ile Formations

**Water depth:** 400 metres

**Estimated reserves:** 113 million boe



## Chronology



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