



wintershall dea



## FACTS & FIGURES

### NOVA SUBSEA DEVELOPMENT

# SMART AND EFFICIENT USE OF EXISTING INFRASTRUCTURE

## Aiming for new production in Norway – refining proven technology

Wintershall Dea, Europe's leading independent gas and oil company, is currently in the execution phase for developing its own-operated Nova field for production in Norway. The field, located in the Norwegian North Sea, will be developed with a subsea production system consisting of two templates tied back to the existing Gjøa platform, which is operated by Neptune Energy. The utilization of the already built infrastructure enables a cost-efficient and sustainable extraction of the resources in the reservoir 2,570 metres below sea level.

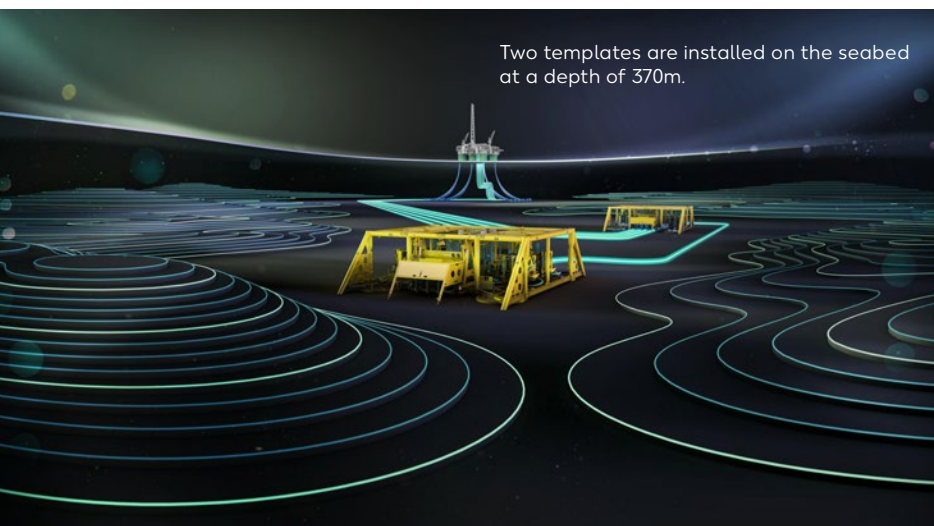
The Nova field has been planned for a production start in 2021. In September 2018, Wintershall Dea received approval for the Plan for Development and Operation (PDO) for the field from the Norwegian Ministry of Petroleum and Energy. When Nova comes on stream, it will be Wintershall Dea's fourth tieback field in production in Norway, underpinning the company's position as an experienced underwater field developer in Norway.



The Nova field, which was discovered in 2012, is located around 120 km northwest of Bergen. The expected recoverable reserves from the field are around 80 million barrels of oil equivalent (boe), of which the majority will be oil.

## Value creation for the industry

The Nova field is expected to produce for around nine years and should significantly increase Wintershall Dea's current daily production of around 150,000 boe. It will create a total of almost 10,000 man-years of work during project execution and operations. The partners, with Wintershall Dea as the operator, are investing almost 1.1 billion euros (9.9 billion Norwegian kroner) in the development of the Nova field. The project partners are Capricorn (a fully owned subsidiary of Cairn Energy PLC), Spirit Energy and Edison.



## Utilizing subsea know-how for a sustainable solution

As the operator of two subsea fields in Norway, Wintershall Dea has steadily developed its subsea expertise. In addition, the company is working with some of the most experienced suppliers on the Norwegian Continental Shelf for the engineering, construction and installation of the Nova subsea systems. Aker Solutions supplies the Subsea Production System, consisting of two subsea templates and manifold systems, x-mas trees, umbilical and subsea control system. Subsea 7 delivers the pipelines and riser systems and installs the entire subsea facilities. A total of 65 kilometres of pipelines will connect the templates to the Gjøa platform. Oil from the Nova field then will be processed on the Gjøa platform and transported to Mongstad via the Troll Oil Pipeline II.

The Nova tie-back also requires topside modifications on the Gjøa platform. A dedicated module will be installed to receive Nova fluids and to provide lift gas and water for injection. Nova will receive electricity from shore via the Gjøa platform, which is connected to the Norwegian electricity grid on land and thus to the large Norwegian hydroelectric power stations.

The sustainable development solution creates a win-win situation for Wintershall Dea, the Nova partnership, the Gjøa license and Norwegian society. The tie-back to the existing Gjøa platform will save costs for Wintershall Dea and extend the economic lifetime of the existing infrastructure. Power from shore helps to reduce CO2 emissions in the production process. Through even greater cooperation with its Norwegian partners, Wintershall Dea is gaining further expertise in subsea production and is positioning itself worldwide as an expert in smart subsea field development.

# Commitment to Norway – Commitment to Europe

Wintershall Dea has been active in Norway for over 45 years and is continuously expanding its activities through Nova and other projects. As the third largest non-state operator on the Norwegian Continental Shelf with a daily production of around 150,000 boe, Wintershall Dea is aiming to further increase these volumes over the next few years. The Nova field is one of the largest investments and alongside the strategic partnership with Norway’s state-owned company Equinor, an important part of Wintershall Dea’s growth strategy in Norway. The development of the Nova field is testimony to the company’s systematic growth and belief in the Norwegian Continental Shelf. As the operator of Nova, Wintershall Dea makes another important commitment to the German-Norwegian energy partnership and secures Europe’s stable supply of energy.

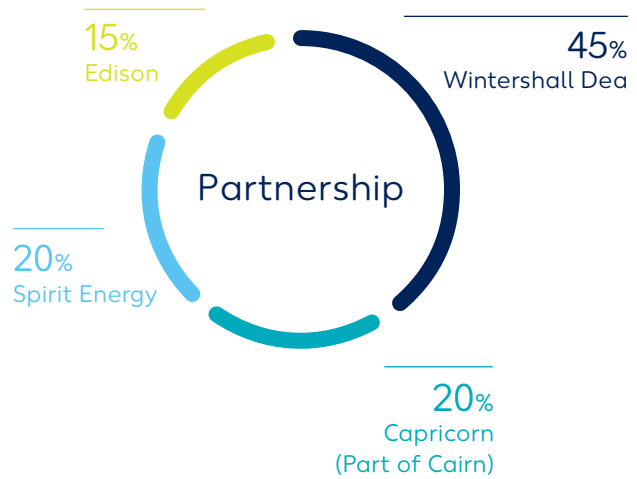
## Facts

**Location:** Norwegian North Sea

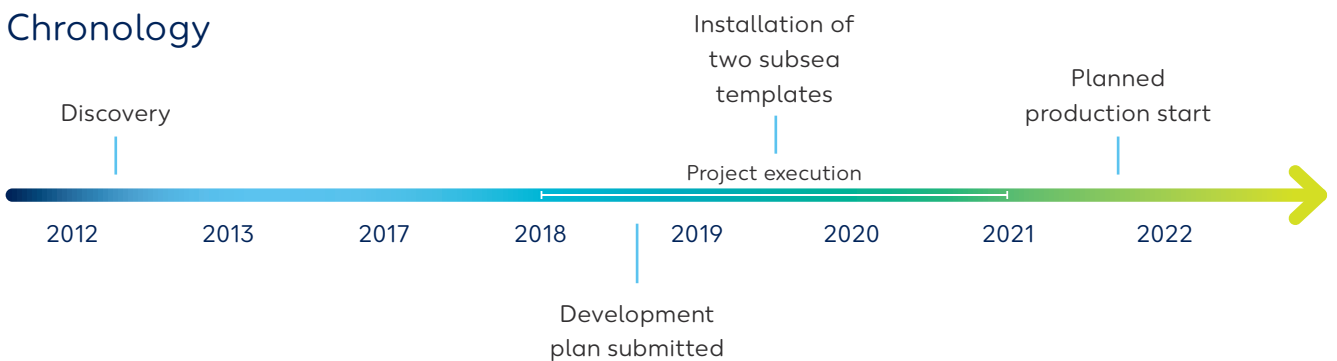
**Water depth:** 370 meters

**Total investments:** 9.9 billion NOK  
(Approx. 1.1 billion Euro)

**Recoverable reserves:** Approx. 80 million boe



## Chronology



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