

Statoil Langeled



Client:
Statoil

Location:
North Sea

Project Type:
SURF

With a value of \$250m the Langeled Pipeline Installation Project was one of the largest contracts executed by Subsea 7's* North Sea, Mediterranean & Canada Territory. The Langeled pipeline exports gas from the Ormen Lange field, and runs from Nyhamna, Norway to Easington, UK. The pipeline is the longest and largest diameter subsea gas pipeline system in the world to date.

Subsea 7 was awarded a contract by joint-operators, Statoil and Norsk Hydro Production AS, for the installation of 1040km of the Langeled Pipeline. Statoil being responsible for the planning and execution of pipelaying on the project in conjunction with the Ormen development operator, Norsk Hydro.

The overall length of Langeled pipeline is 1166 km and in 2005, 528km of 44-inch pipeline was installed in the southern section between Sleipner and Easington. During 2006, 512km of 42-inch pipeline was installed from Nyhamna towards Sleipner.

*Project carried out by Acergy prior to merger with Subsea 7.

Statoil Langede Pipeline Installation project

Project

Langede pipeline
Installation project

Client

Statoil

Location

Norway

Water depth

20m - 385m

Project Type

SURF

Date Awarded

2004

Date Completed

2006

Vessels/Spoolbases Utilised

Acergy Piper

Overview

The installation of the Langede Pipeline was performed over two lay seasons (2005 and 2006). During the 2005 season *Acergy Piper* laid 528km of 44-inch diameter pipe from Sleipner towards Easington in water depths ranging from 20m to 95m. During this operation the pipeline was installed over 23 crossings, three future hot tap tees were installed and a laypass spool at Sleipner was installed for future tie in to the Sleipner platform.

The installation of the laypass spool was a challenging operation with *Acergy Piper* operating close to the live platform and in a critical safety zone with many pipelines on the seabed. During the 2006 season the *Acergy Piper* laid 512km of 42-inch diameter pipe from Nyhamna towards Sleipner in water depths ranging from 85m to 385m. During this operation the pipeline was installed over ten crossings, two future hot tap tees and the pipeline was laid through the Norwegian Trench. Gas production through the Langede South trunkline commenced in October 2006 using gas from the existing distribution network. Production through the Langede North trunkline started in October 2007, using gas production from the new Ormen Lange development.

Langede will deliver 20% of the entire UK annual gas consumption over the next 40 years.

Scope included:

- 528km of 44-inch pipeline from Sleipner towards Easington
- 512km of 42-inch diameter pipe from Nyhamna towards Sleipner
- 33 crossings
- Five future hot tap trees.

Logistics

A logistics base was set up in Peterhead for the 2005 season which supplied *Acergy Piper* with fuel, water, welding consumables, gas and field joint coating materials. The logistics base for 2006 was at CCB Bergen. The pipe was delivered by Statoil from both Farsund in Norway and Hartlepool in UK for the 2005 season. During the 2006 season, pipe was delivered from Måløy and Bergen.

Support Fleet

Supporting the barge were four anchor handling tugs - *Mærsk Leader*, *Mærsk Lifter* and *Mærsk Seeker*. *Normand Trym* was chartered for the 2005 season, and was replaced by *Beta* for 2006. *Northern Genesis* provided *Acergy Piper* with routine supplies and was used during both seasons. In addition, Statoil had five pipe carriers delivering the pipes to *Acergy Piper* and *Edda Fonn* provided survey support during the pipelaying operations. A total of eleven support vessels have been operating in the field on a continuous basis.



Acergy Piper



Pre-heating at mainline station