

OIL AND GAS FIELDS IN NORWAY

INDUSTRIAL HERITAGE PLAN



NORSK OLJEMUSEUM

GOLIAT

This oil and gas field lies in 320-420 metres of water in the Barents Sea, about 50 kilometres south-east of Snøhvit and 85 north-west of Hammerfest. Eni Norge is the operator.

Reservoir and recovery strategy

Goliat comprises two separate main reservoirs, Kobbe and Realgrunnen, which both contain oil with a gas cap. In addition, limited oil discoveries have been made in the Snadd and Klappmyss formations. Realgrunnen lies about 1 000 metres below sea level, while Kobbe is roughly 1 800 metres down.

The first exploration well found oil in sandstones of late Triassic and early Jurassic age, about 1 100 metres below sea level. Hydrocarbons have later been proven at three different levels in Triassic sandstones. Oil and gas were proven in the main reservoir, in the Realgrunnen sub-group from the late Triassic. In addition, oil was found in the Snadd formation of the same age and an oil column in the middle Triassic Kobbe formation. Limited oil disco-

veries have been made in the Klappmyss formation. Oil will be loaded into shuttle tankers, with the gas injected back into the Kobbe reservoir or piped to Melkøya. Plateau gas output (or injection) is expected to reach about 1 300 million scm per year roughly 12 months after production begins. It will then decline somewhat. Goliat is expected to produce for about 15 years, and this life could be extended if further discoveries are made in the area.

Development solution

The licensees have resolved to continue work on development plans based on the Sevan Marine 1000 FPSO concept tied back to subsea installations.

A total of eight seabed templates – four production, three water injection and one gas injection – are planned, with 22 wells in all. Eleven will be for production, nine for water injection and two for gas injection.

Electricity will be supplied from land via a submarine transmission cable combined with a gas-turbine-driven generator on the floater.

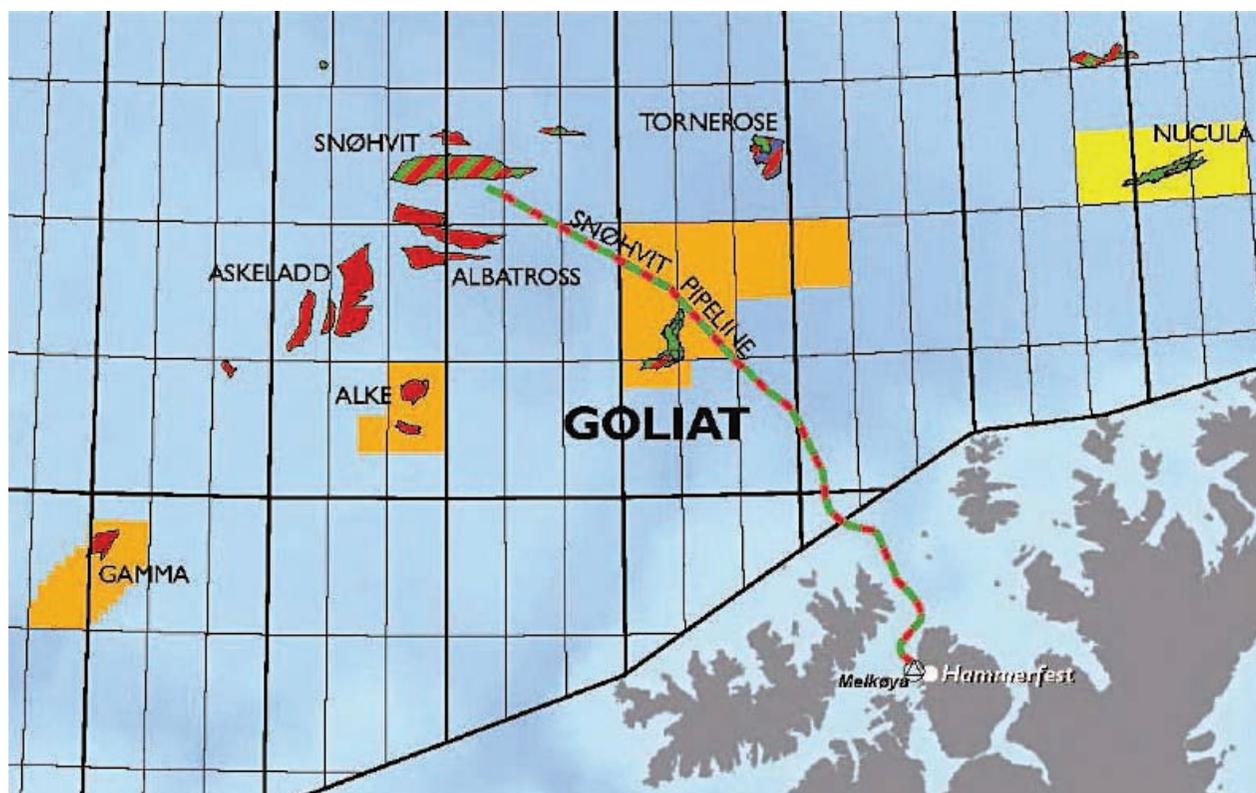


Illustration: Eni Norge



The Sevan FPSO. Illustration: Sevan Marine

Goliat

Block	7122
Production licences	229 and 229 B
Awarded	1997
Recoverable reserves	192 mill bbl oil 7.4 bn scm gas 0.4 mill tonnes NGL
Discovery year	2000
Approved for development	18 Jun 2009
On stream (planned)	2013
Operator	Eni Norge
Operations organisation	Hammerfest
Licensees	
Eni Norge	65%
Statoil	35%