



nordsøfonden

50% OF DUC PRODUCTION

The Halfdan Hub

Halfdan contributes almost 50% of the total daily oil production in Danish Underground Consortium.

Production

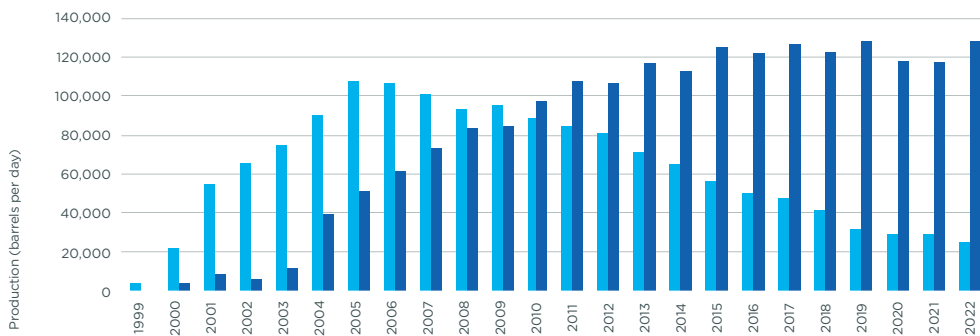
Oil and gas is recovered from the Halfdan field using long, alternate horizontal production and water injection wells, with parallel well trajectories. Varying the injection pressure in the well causes the rock to fracture. This generates a continuous water front along the length of the well, which drives the oil towards the production wells.

*2020 production numbers.

Halfdan Oil and Water Production 1999-2022

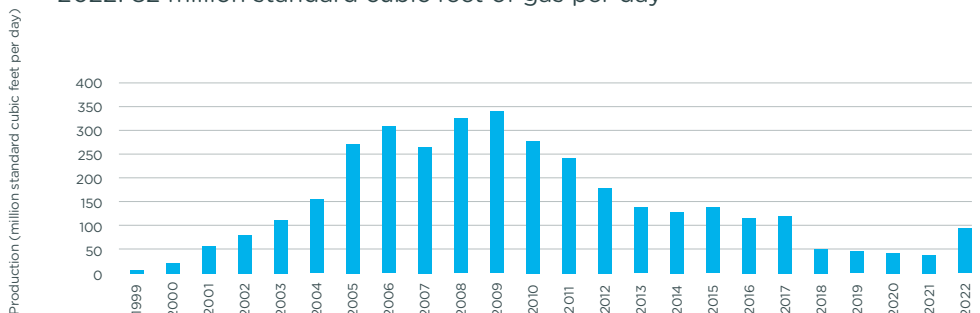
2022: 24,794 barrels of oil per day

● Oil Production
● Water Production



Halfdan Gas Production 1999-2022

2022: 82 million standard cubic feet of gas per day



Operated production. TotalEnergies in Denmark production share: 43.2%

Block
5505/13 and 5504/16

Licence
Sole Concession

Location
210 km west of Esbjerg

Discovered
1999

Production start
1999, 2004 and 2007

Producing wells
55

Water injection wells
30

Reservoir depth
2,100 m

Field delineation
100 km²

Reservoir rock
Chalk

Geological age
Danian and Upper Cretaceous

WATER DEPTH

43m

The Halfdan Hub

Main platform built

Singapore (Halfdan BA)

Complex

two main centres and one unmanned satellite

Latest field development

Halfdan B process module, 2010

Connections to other platforms

- the oil produced is transported to Dan F (From Halfdan B to Halfdan A to Dan F)
- water injection is supplied from Dan
- the gas produced is temporarily transported to Shore (NL) through the Dan facilities

Installation dates

- | | |
|----------------------|------|
| • Halfdan DA | 1999 |
| • Halfdan BA | 2001 |
| • Halfdan DB, DC | 2003 |
| • Halfdan BB, BC, CA | 2007 |
| • Halfdan BD | 2009 |

Halfdan A

Accommodation

32 beds

Helicopter deck

yes

Wells

35 (20 producers and 15 water injectors)

Platforms

one combined process module and wellhead (DA), one accommodation (DB) and one flare tower (DC)

Bridges

connect the platforms (approx. 100 m long) and have walkways on two levels

Halfdan B

Accommodation

80 beds

Helicopter deck

yes

Wells

40 (25 producers and 15 water injectors)

Platforms

one process module (BD), two wellheads (BA, BB) and one accommodation (BC)

Bridges

connect the platforms (approx. 100 to 140 m long) and have walkways on two levels

Halfdan C

Accommodation

unmanned satellite

Helicopter deck

no

Wells

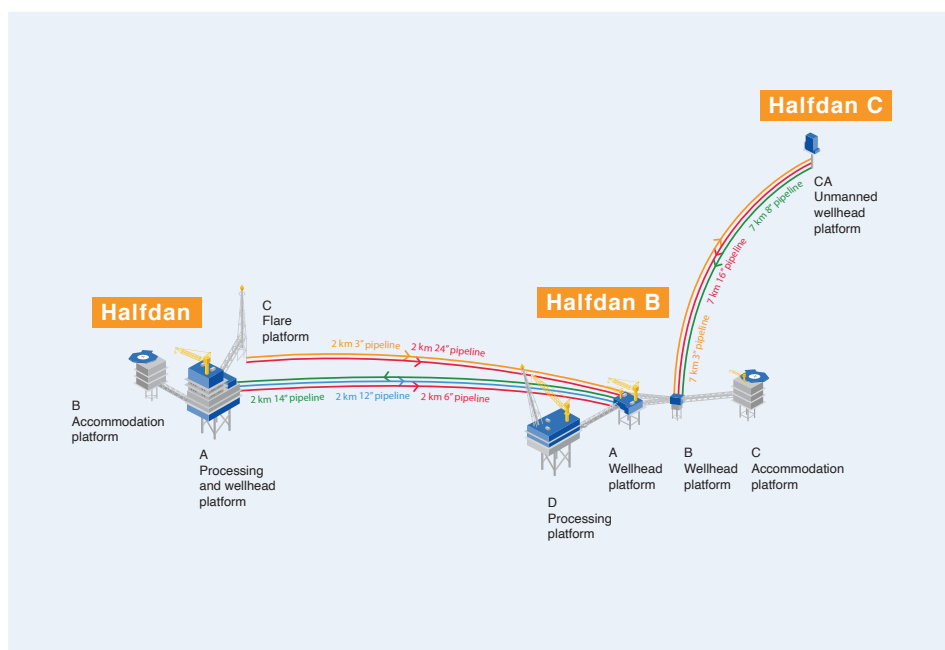
10 producers

Platforms

one wellhead (CA)

Bridges

none



Oil and Gas Production in Denmark 2012, p. 58, Danish Energy Agency

Distance

- 2 km from Halfdan DA to Halfdan BA
- 7 km from Halfdan BB to Halfdan CA

Total weight

62,853 tonnes