



North Sea Interconnector

HVDC Project

Customer

Statnett SF

National Grid Company plc (NGC)

Project Location

The North Sea

Services provided

A joint project team from Statnett and NGC has the responsibility for the development of the project including the following activities:

- Project management
- Preparation and management of licensing processes
- Land acquisition
- Pre-engineering
- Preparation of tender documents
- Tender evaluation and contract preparation
- Negotiation of pipeline and cable crossing agreements
- QA and HSE



Engineering Division

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Date August 2002



Background

The HVDC link between Norway and England will utilise the economic potential in connecting the UK and the Nordic electricity power markets. The link makes it possible to combine the hydro based power system in Norway and the thermally based generation system in UK. The differences between the power demand profiles and energy production systems in the countries would be expected to promote a reasonably balanced two-way exchange of electricity, allowing:

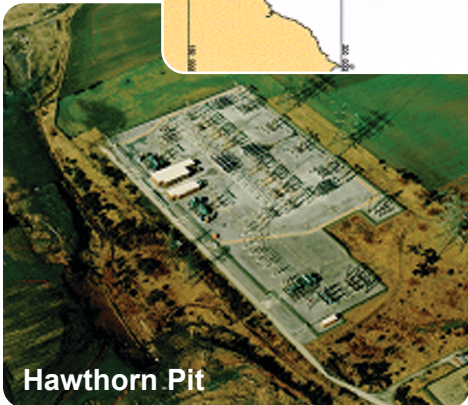
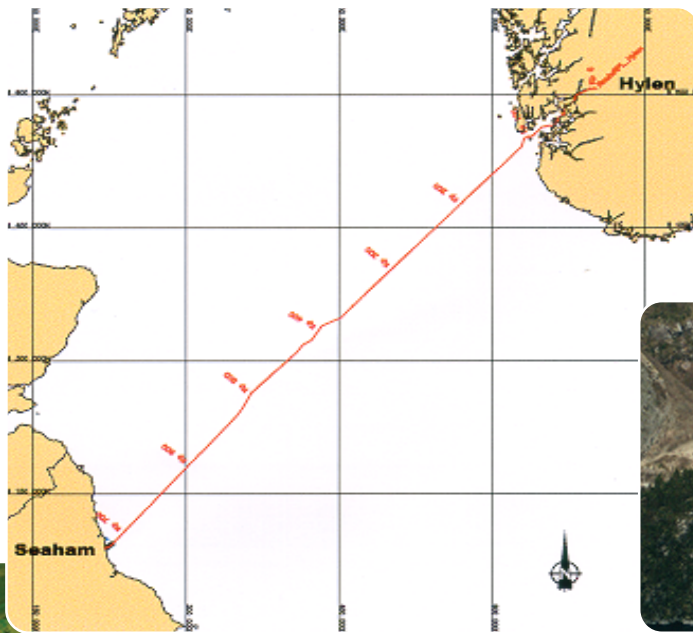
- the possibility to help reduce peak wholesale electricity prices in the UK and Norway
- increase security of power supply in Norway

Commercial operation

The link is planned to be in operation January 2007.

Main data

Capacity	1200 MW
Bipolar system without sea electrodes	
DC voltage	500 kV
Length of the sea cable route	730 km
Landing point Norway	Hyleen
Landing point England	Seaham (Ryhope)
Converter station Norway	Kvilldal
Converter station England	Hawthorn Pit



Hawthorn Pit



Kvilldal

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