



# Planning of HVDC links

In the field of HVDC connections Statnett is among the most experienced companies in the world. This is due to its special background in overall planning, detail engineering, procurement, construction, operation and maintenance of such installations dating back to the early seventies. In recent years, Statnett has been involved in planning and construction of several new HVDC interconnections for Statnett and as consultant for other project owners.

## Consulting services

The company constitutes a major centre of expertise in HVDC project activities such as:

- Project management
- Engineering and Studies
  - Feasibility studies
  - Licensing
  - Environmental assessment studies
  - System studies
  - Power engineering
  - Civil engineering
  - Route surveys
  - R&D activities
- Preparation of tender documents
- Contracting and contract follow-up
- On site management
- Commissioning
- Operation and maintenance



## Engineering Division

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 **Statnett**

## Selected references

In the following projects Statnett was one of the project owners:

- Skagerrak 1, 2 and 3 HVDC Interconnection between Norway and Denmark
- Viking Cable HVDC Project between Norway and Germany
- EuroKabel HVDC Project between Norway and Germany
- NorNed kabel between Norway and the Netherlands
- NSI (North Sea Interconnector) between Norway and England

For all these projects, the main project office were located at Statnett's premises in Oslo Norway.

Key personnel at Statnett have also been involved in the legal and economic issues which has to be agreed and sorted out prior to implementing such projects. This include, but is not limited to, agreements regarding finance, tariffs and use of the link, third party access and activities designed to achieve lowest possible development costs.

The twenty years of experience from operation and maintenance of the Skagerrak interconnections provides valuable input in issues relating to engineering, implementation, operating and maintenance of such projects.

Key personnel have also been involved in the following projects:

- Moyle Cable Crossing for NIE (Northern Ireland)
- Leyte-Mindanao HVDC Interconnection for NPC (Philippines)
- Basslink HVDC Project for Basslink Pty Ltd (Australia), Siemens AG (Germany) and NSR Environmental Consultant (Australia)
- Gibraltar Cable Crossing for REE (Spain) and ONE (Morocco)
- Norway Power Project from mainland Norway to offshore platforms in the North Sea for BP/ Phillips (Norway)



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