



# The Norwegian-German subsea cable project

Schleswig-Holstein / Eastern Norway County Network  
07.11.12

# Statnett



The Norwegian  
Transmission System  
Operator



930 employees



Four subsea  
interconnectors



Nine overhead  
interconnectors

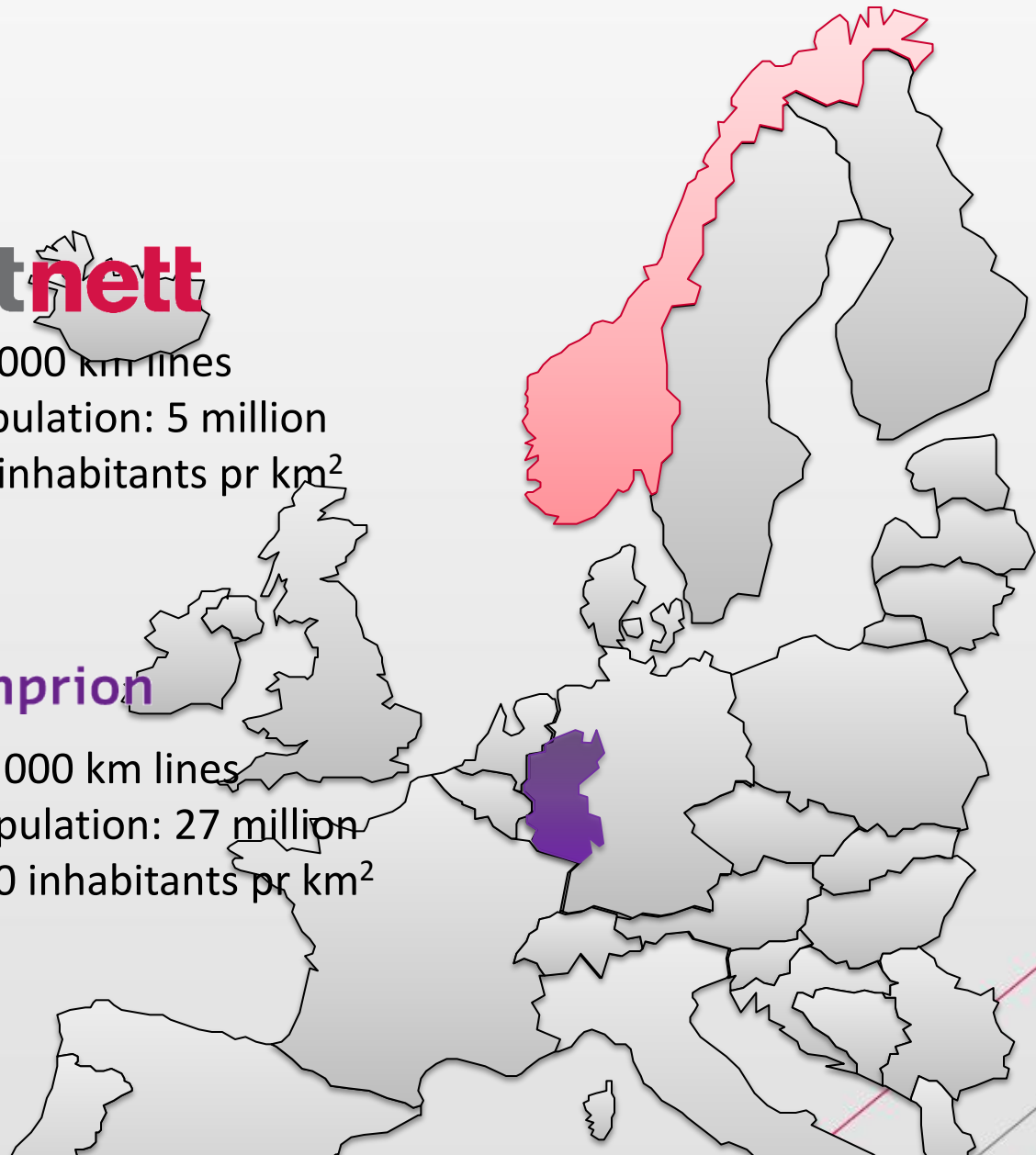
# Statnett

- ⦿ 10 000 km lines
- ⦿ Population: 5 million
- ⦿ 15 inhabitants pr km<sup>2</sup>



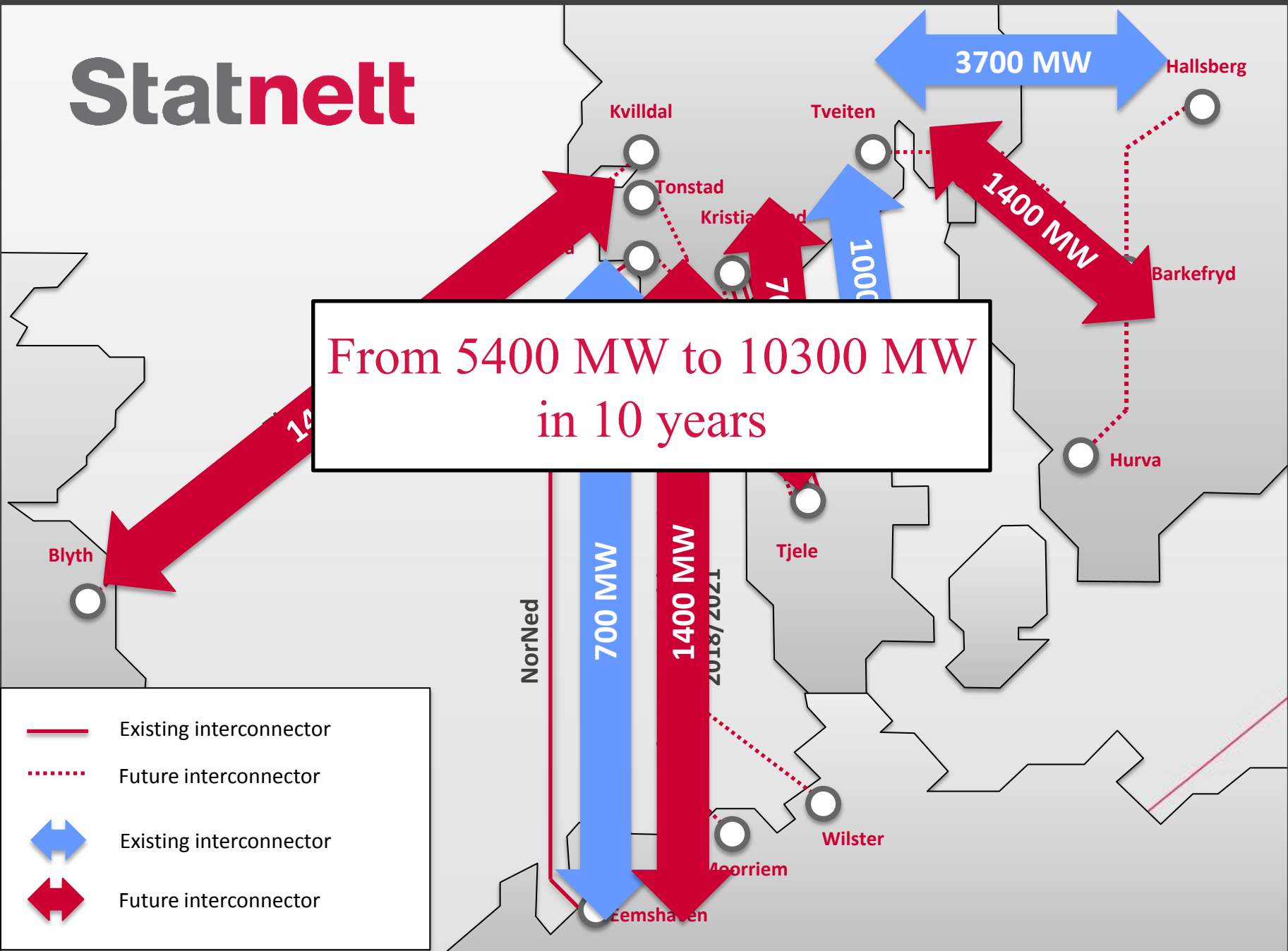
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- ⦿ 11 000 km lines
- ⦿ Population: 27 million
- ⦿ 370 inhabitants pr km<sup>2</sup>

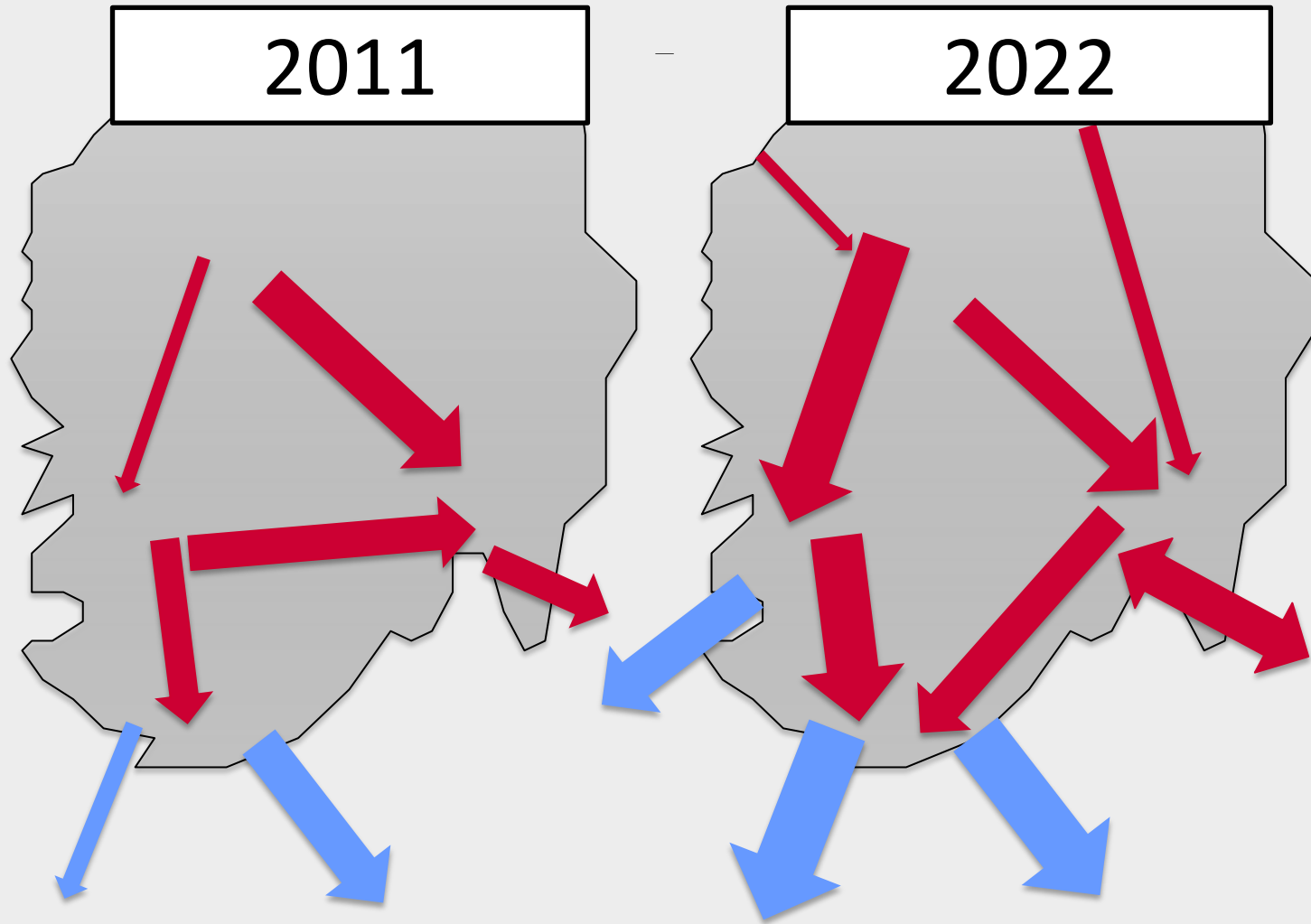




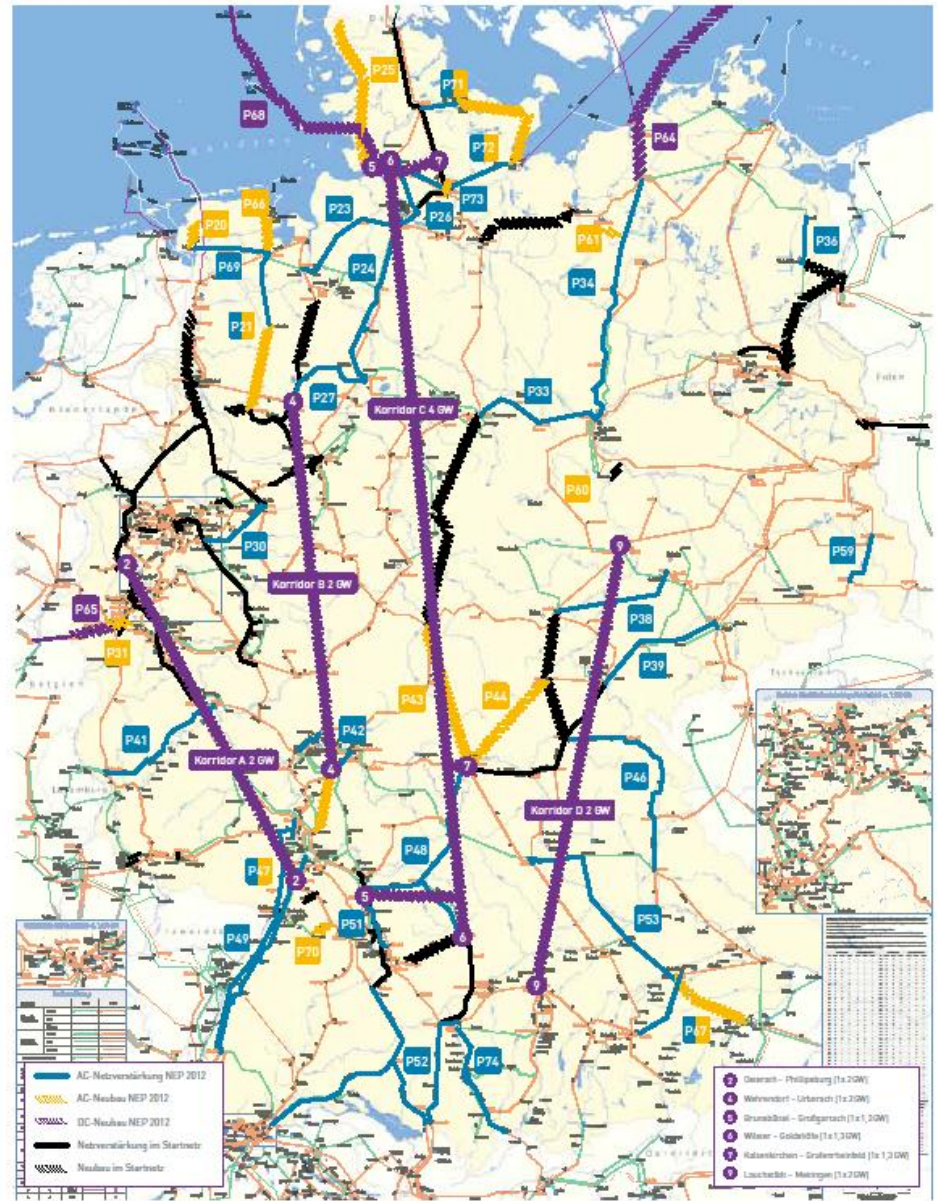
# Statnett



# Effect on grid in Norway - export mode



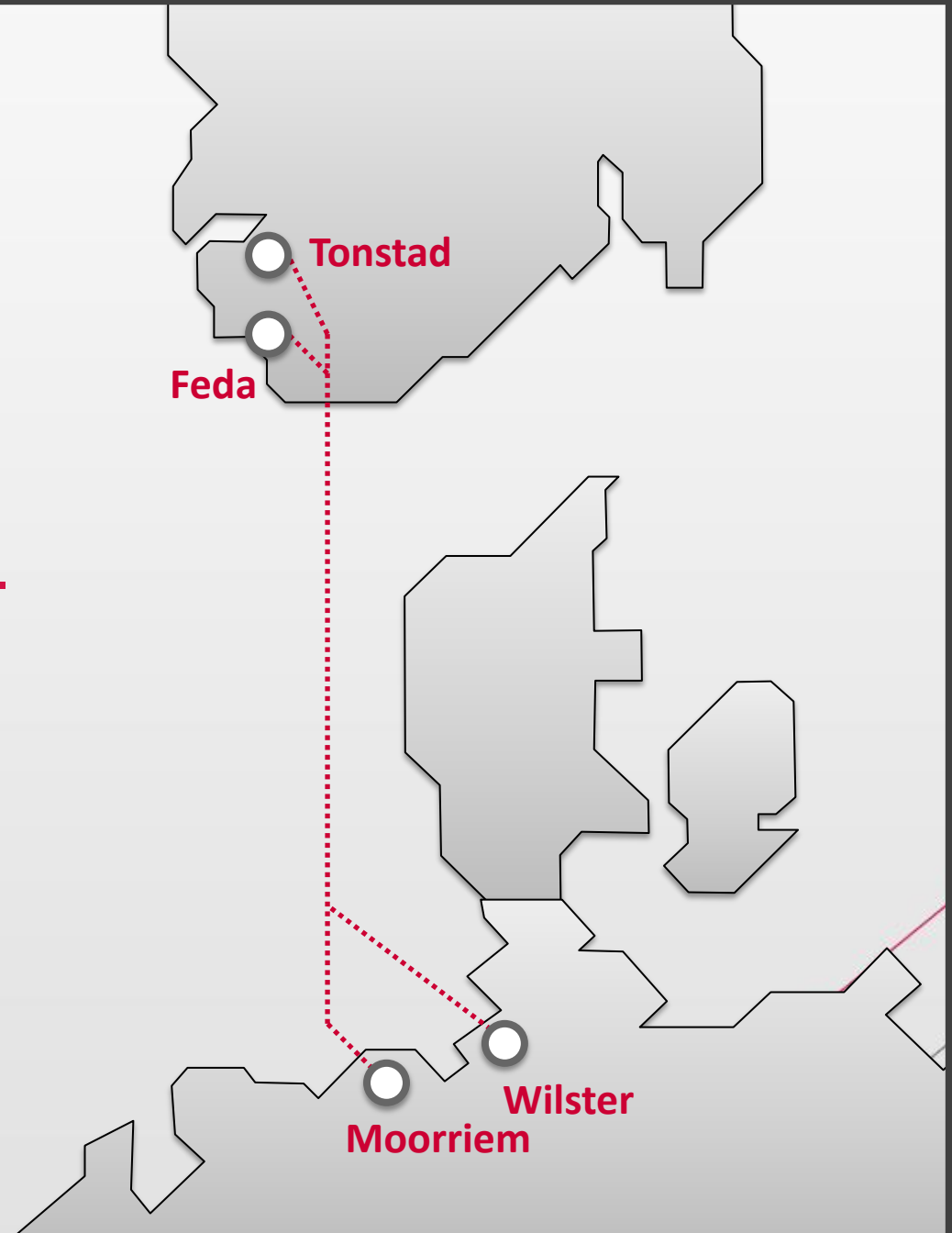
# German Grid development plan (a scenario)



# The Norwegian-German project

Tonstad  
Feda

Wilster  
Moorriem





# 🎯 Animation

## Projectpartners:



Norwegian TSO, owner and operator of Norwegian grid, including interconnectors



German TSO, owns and operates grids at connection points



Government owned investment bank active in financing Energiewende projects

# Status

- Parties: Statnett – KfW/TenneT 50-50
- Cooperation agreement in place
- Full political support
- Ongoing licensing processes in
  - Germany
    - Schleswig-Holstein (NORD.LINK)
    - Niedersachsen (NorGer)
  - Denmark
  - Norway
- Decision NORD.LINK vs NorGer Q1/2013.

The screenshot shows the official website of the Ministry of Petroleum and Energy of Norway. The header includes the government logo and navigation links for 'government.no', 'Stoltenberg's Second Government', and 'Ministries'. A search bar is present in the top right corner. The main content area features a press release dated 21.06.2012 with the title 'Will build power cables to Germany and the UK'. The text of the press release discusses a meeting in Berlin between Norwegian Minister Ola Borten Moe and German Minister Philipp Rösler, confirming plans for a power cable between Norway and Germany in 2018. It also mentions a partnership with the British company National Grid for a cable to the UK, scheduled for completion in 2020. A photograph at the bottom shows Mr. Borten Moe and Mr. Rösler standing together in front of the flags of Norway, Germany, and the European Union.

government.no Stoltenberg's Second Government Ministries Topics A-Z Site map

MINISTRY OF PETROLEUM AND ENERGY

You are here: [Government.no](#) / [Ministry of Petroleum and Energy](#) / [Press centre](#) / [Press releases](#) / [2012](#) / Will build power cables to Germany and the UK

Press release, 21.06.2012  
No.: 049E

### Will build power cables to Germany and the UK

At a meeting in Berlin today between Minister of Petroleum and Energy Ola Borten Moe and Germany's Federal Minister of Economics and Technology Philipp Rösler it was made clear that Statnett's plans for a power cable between Norway and Germany can be realised in 2018. At the same time Statnett and the British company National Grid confirm their plans to develop an electricity interconnector between Norway and the UK.

Statnett, the German system operator TenneT and the German national bank KfW are working together on the German project.

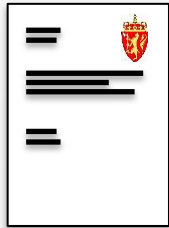
**- I am very pleased with the opportunities it provides for enabling cross-border electricity trading between Germany and Norway. The companies have found a good solution for both countries. This cable is an important step forward in the good energy cooperation between our two countries, says Borten Moe.**

Statnett has also entered into a partnership agreement with the British company National Grid that confirms plans to build a power cable between Norway and the UK. Scheduled for completion in 2020, the cable will be the longest subsea power cable in the world.

Together, the two cables will strengthen the North European electricity grid and the supply security in Norway. The cables will be used for profitable trading of power in that electricity will flow to Norway when prices in Germany and the UK are lower than here. In the same way, we will export when prices are high abroad. We will therefore import when consumption is low in other countries, such as at night, and export during the day. Similarly, we will import when windmills abroad produce at full capacity. When we experience dry years with high prices in Norway, we will import - and vice versa in wet years. Power trading will also help facilitate increased development of renewable energy production in both Norway and Europe.

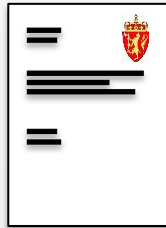
Mr. Borten Moe (left) and Mr. Rösler met in Berlin today(HSI/OED)

# Required licenses/permits for NORD.LINK/NorGer



**Technical license**

Norwegian Water Resources and Energy Directorate



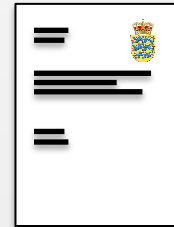
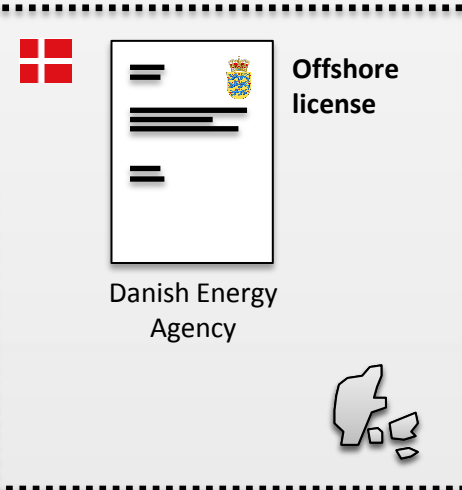
**License according to the Offshore Energy Act**

Ministry of Petroleum and Energy



**Power exchange license**

Ministry of Petroleum and Energy



**Offshore license**

Danish Energy Agency

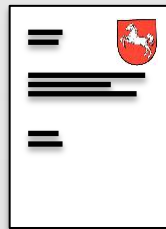


**Exclusive Economic Zone (EEZ)**

Federal Maritime and Hydrographic Agency (BSH)

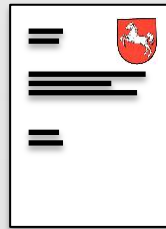


State Mining Authority (LBEG) of Clausthal-Zellerfeld



**Regional Planning Procedure**

State Company for Road Construction and Transport (NLStBV)



**Planning Approval Procedure**

State Company for Road Construction and Transport (NLStBV)



**Regional Planning Procedure**

State Company for Road Construction and Transport (LBV)



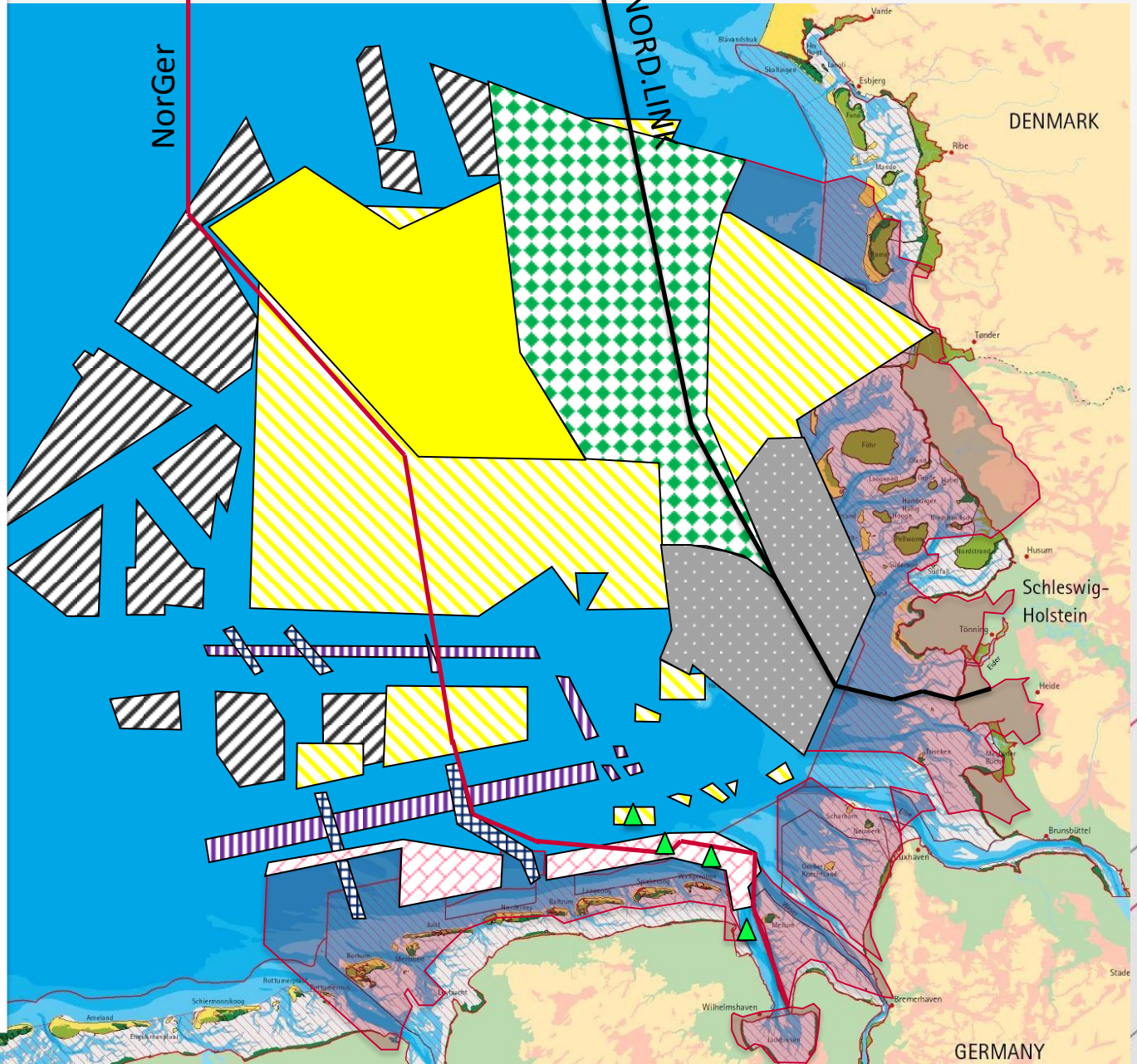
**Planning Approval Procedure**

State Company for Road Construction and Transport (LBV)

# Offshore planning

-  Planned/approved/in use offshore windpark
-  Wattenmeer National Park
-  Restricted Area  
-Military Practice Area  
-Submarine Diving Area  
-Fly zone
-  Sylt Outer Reef Nature Reserve
-  SPA Östliche Deutsche Bucht (Protected Area)
-  Seevogelschutzgebiet Helgoland (Protected Area)
-  Shipping Separation Area (Shipping lanes)
-  Protection Corridor – No Anchoring Zone
-  Bird Protection Area
-  Former Munitions Dumping Grounds
-  NorGer Proposed Route
-  Nord.Link Proposed Route

Map: Common Wadden Sea Secretariat



# Onshore - overall feasibility

- ⊙ Grid connection point – feasible plot
- ⊙ Feasible onshore route
  - ⊙ Agreements with 250 landowners
  - ⊙ Property- and environmental compensations
- ⊙ Crossing of infrastructure
  - ⊙ Crossing of dikes
  - ⊙ Crossing of Nord-Ost See Kanal
  - ⊙ Crossing of roads and bridges
  - ⊙ Crossing agreements offshore infrastructure

