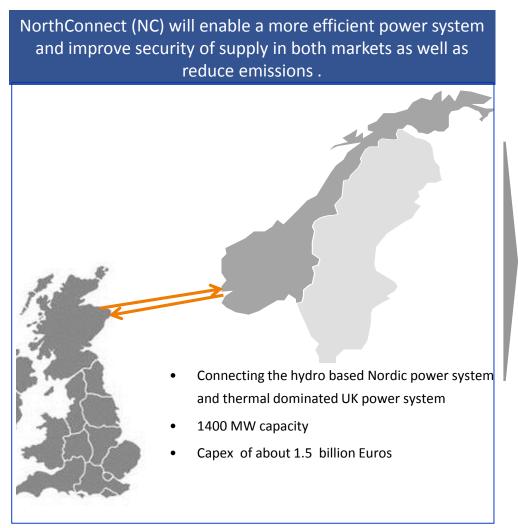


# Northconnect - A practical example of electricity market integration

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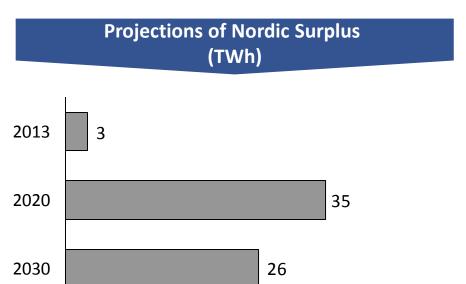
«Electricity Market Integration – A North European Perspective» 3rd of March 2015, Stockholm

# NorthConnect is developing a power interconnector between Norway and the UK





### The Nordic region is approaching a large power surplus situation..



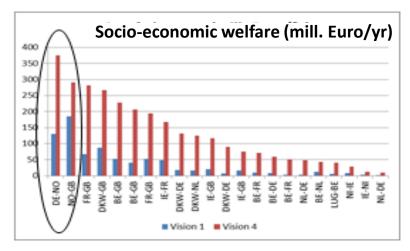
Source: Statnett presentation of key assumptions for Grid Development Plan 2015-2035 August 2014

## Surplus driven by renewable targets and weak consumption growth

- The ongoing work on Statnett's Grid development plan (2015-2035) has not included any new interconnectors after 2020 ...
- The lead time for an interconnector project is typically
   + 10 years
- Should trigger the need for a pipeline of interconnector options
- NorthConnect is the only interconnector option from Norway after 2020 and feasible to be ready for operation during 2022

**Strong rationale for NorthConnect** 

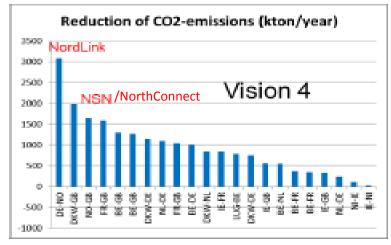
NorthConnect has got status as a Project of Common Interest and is among the projects with highest score...

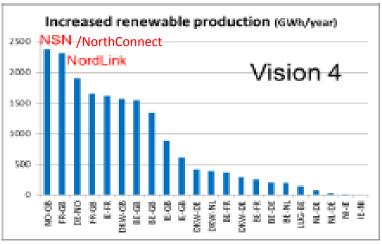


#### • Supported by numerous studies:

- OfGem/Poyry (Dec 2014) Cap and Floor Initial project assessment for NSN
- National Grid & UK Govt (Apr-14), IC Report
- ENTSO-E (Mar-14), TYNDP14 Interim Results
- NorthConnect Modelling (Apr-13 to Mar-14):
- Stanett NSN (May -2013) Concession application
- DECC-Redpoint Baringa (Dec-13), GB Interconnection:
- DECC-Pöyry (Dec-12), EMR & ICs
- Thema (May-12), Renewables & IC's Towards 2020

Strong socio-economic and climate case





Source: PCI-assement as part of TYNDP 2014 studies

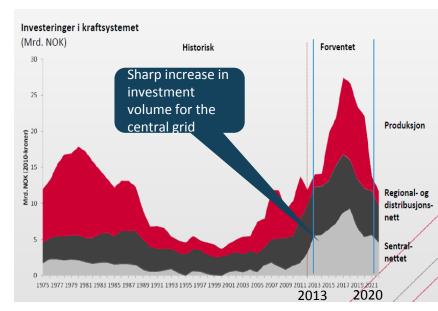
# Massive transmission investments necessary to meet European Energy policy targets ...

The scale of the investment challenge is large...

- EC estimates over € 200 bn of investment required in transmission projects by 2020
- Projections from TYNDP 2014 give an investment volume of €150 bn in transmission projects of 'pan-European significance'
- €50 bn relates to subsea cables a boost for interconnectors

But will the TSO be able to deliver?

- Not certain that regulated TSOs will be able to allocate enough:
  - management time
  - resources
- 1 of 3 European transmission projects delayed<sup>1)</sup>...



Source: Statnett presentation Energy Days NVE Oct. 2012

# ... however, the appetite for merchant interconnectors seems to be modest in EU

Some exemptions approved but with reduced returns





- Exemption approved...
- ....but with capped returns at 1% above IRR
- Exemption approved...
- ....but share their return above a certain treshold

High administrative hurdles for merchant investment

- Considerable interaction necessary with national regulators
- Need to apply for exemption to meet a large number of relatively unclear criteria in relation to
  - Competition;
  - Ownership;
  - Technical

EC should support merchant interconnectors as a necessary supplement to TSO interconnectors

EU targets, regulations and directives support NorthConnect, but there are some serious issues ....

## Key issues related to enhanced market integration

- The principle of subsidiarity in the EU means each member state develops its own processes and requirements under the overarching EU legislation
- Each member does it differently due to focus on national interests and priorities

#### ...and associated implications

- The different national processes do not fit together and make cross-border interconnector development extremely complex
- The major initiatives are happening on a national basis:
  - UK Electricity Market Reforms
  - Cap and floor in UK
  - Nordic Green Certificate Market....
- The different national initiatives may end up going against the aim of enhanced market integration



UK government is generally very supportive for IC and NorthConnect, but we face a liability challenge ...

#### **Key issues in UK**

 Huge underwriting liabilities for grid reinforcements

#### **Evaluation**

- Potential huge underwriting liabilities due to unrealistic grid reinforcement assumptions
- Creates unnecessary risk and prevents development of cross border interconnectors
- The principles of 3<sup>rd</sup> package mean that the grid should be facilitating the flow of the cheapest power
  - The TSO should be giving priority to the cheapest sources of power when there are grid constraints
  - That means that the Interconnector may displace more expensive UK generation

### But the really hard obstacles come from Norway...

#### **Key issues in Norway**

- The former government decided to amend the Norwegian Energy Act and created an interconnector monopoly for Statnett SF
- The new government promised to repeal this monopoly, but has not indicated any timeline



- Interconnectors from Norway have to be granted a Foreign Trade Licence (FTL) pursuant to the Norwegian Energy Act
  - criteria lacks transparency
  - fully dependent upon input from the TSO

#### **Evaluation**

- The Minister has confirmed that the government will repeal the interconnector monopoly
- However, MOPE has also stated that there is a need for operational experience with the new interconnectors and capacity studies first..
- This creates uncertainty for the further development of NorthConnect
- Crucial for NorthConnect owners to get a timeline for the repeal of the interconnector monopoly

- Lack of transparency in the FTL process and conflicts of interest with the TSO as project developer are major concerns
  - Implementation of the 3rd Energy package will improve this concern, but no timeline is defined

### Conclusions...

Strong socioeconomic and climate case for NorthConnect

- Among the top ranked interconnector projects by the EU assessment of Projects of Common Interest...
- both from a socio economic welfare as well as climate perspective
- .... and NorthConnect provides the same socio economic welfare as a TSO interconnector

But further development hampered by...

- Each member state develops its own requirements and processes under the overarching EU legislation without distinct requirements and harmonised EC processes for cross border Interconnectors
- Lack of EC support for 3<sup>rd</sup> party projects as a necessary supplement
- Potential extremely high liabilities in UK due to unrealistic grid reinforcement assumptions

...and risk to be blocked by slow repeal of the Norwegian interconnector monopoly

- Lack of clarity about timeline for repeal of the interconnector monopoly
- Potential grid constraints in the domestic grid should not be a valid reason for blocking development of new cable options beyond 2020, but be addressed in the new Norwegian Grid Development Plan (2015-35)
- A timeline for repeal of the interconnector monopoly is necessary to secure further development of NorthConnect

- NC will provide benefits to the citizen of EU and Norway
- A swift removal of barriers should be supported by the industry and politicians

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