



North Sea Regional Group Investment Plan

Teun van Biert
Convener Regional Group
North Sea

Ten Year Network Development Package 2012 Workshop
Brussels, 28 March 2012,

Regional Group North Sea

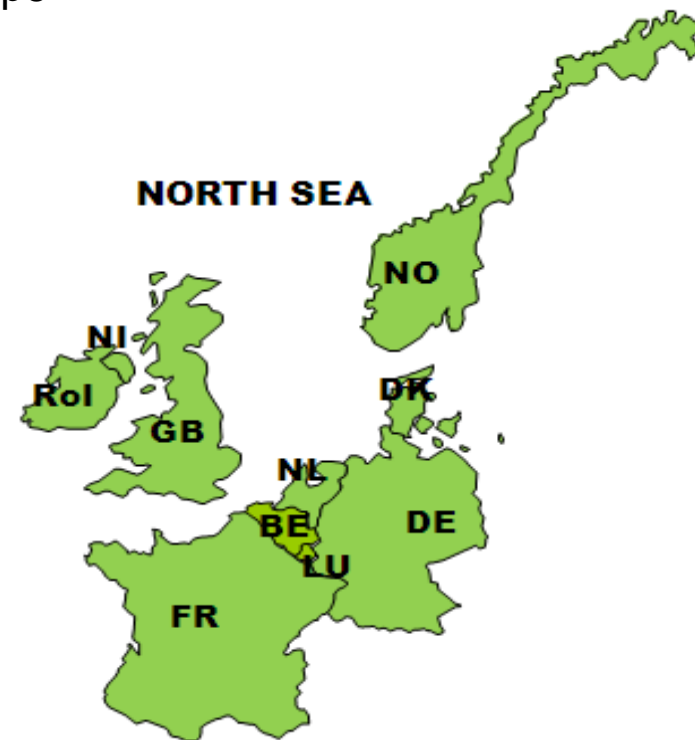


The perimeter

- The countries Belgium, Denmark, France, Germany, Ireland, Luxembourg, Netherlands, Norway and UK
- 3 islanded systems and connected with continental Europe

Investment drivers

- Preservation of Security of Supply and completing the European electricity market
- Large Scale connection of RES
- Connection of conventional plants
- Support of load growth

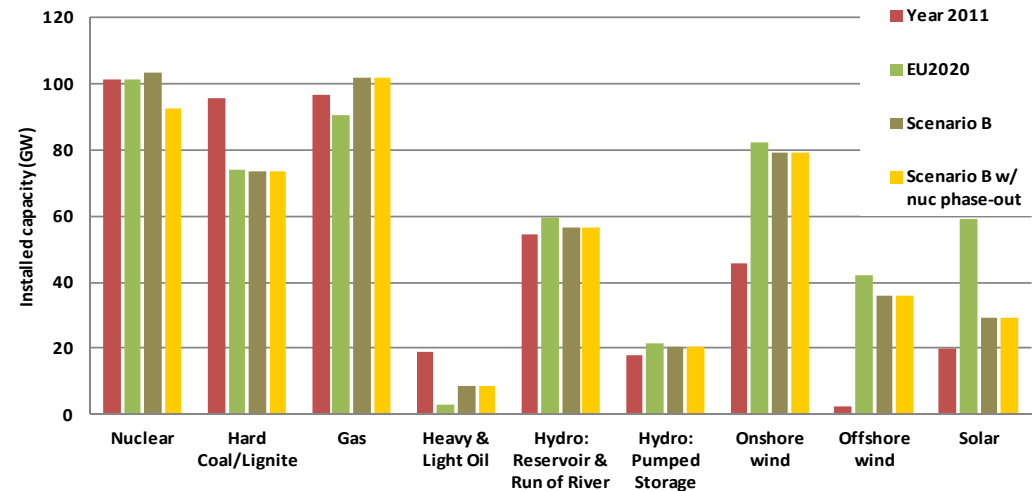


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Challenges

- Changing generation mix towards 2020
- Offshore Wind
- Hydro
- Solar
- Conventional generation

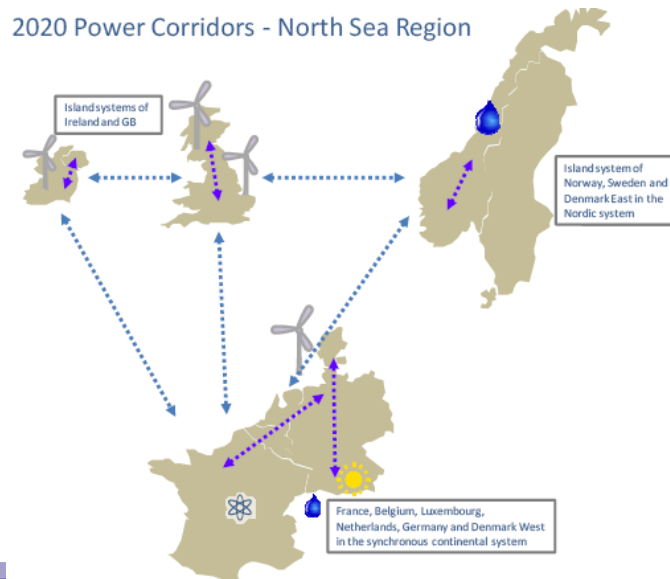
Installed capacities in 2011 and 2020 [GW]



Increasing flows on power corridors

- Interconnection of electrical islands
- Strengthening of the east-west axis
- North to South Reinforcements
- Integration of RES and low carbon generation
- Market Integration

2020 Power Corridors - North Sea Region



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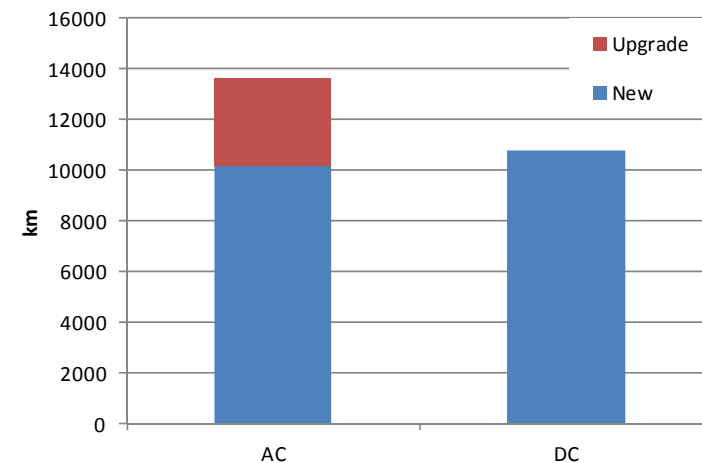
Key success factors

- Permit Granting Procedures
- Regulation
- Financing

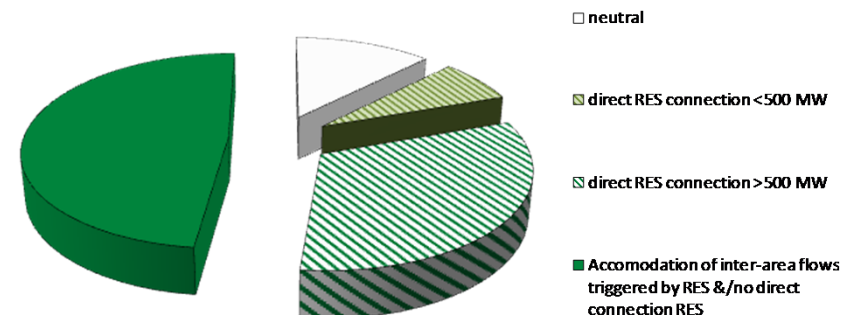
The presented projects

- 58 Projects of EU significance
- Total investment costs EUR 75 billion
 - ~ 10 000 km New AC lines / cables
 - ~ 3 700 km AC upgrade
 - ~ 11 000 km DC lines/cables
- Connecting 35 to 42 GW Offshore wind in 2020

Projects until 2020



RES integration



North Sea Countries' Offshore Grid Initiative (NSCOGI)

Governments

Regulators



TSOs

Industry

Signing the MoU, December 2010

North Sea Countries' Offshore Grid Initiative (NSCOGI)

Governments

TSOs

Coordinated view on
North Seas' Offshore Grid

Ministers

Steering Committee

(Government officials & EC)

Programme

Board

- Governments
- Regulators
- TSOs (RGNS)
- Commission

3 Working Groups

(chaired by 2 Gov'ts)

- DK-NL **1 Grid Config & Integration**
- IE-UK **2 Market & Regulat Issues**
- DE-FR **3 Planning & Authorization**



"Adamowitsch
Working Group"

12.2010

12.2011

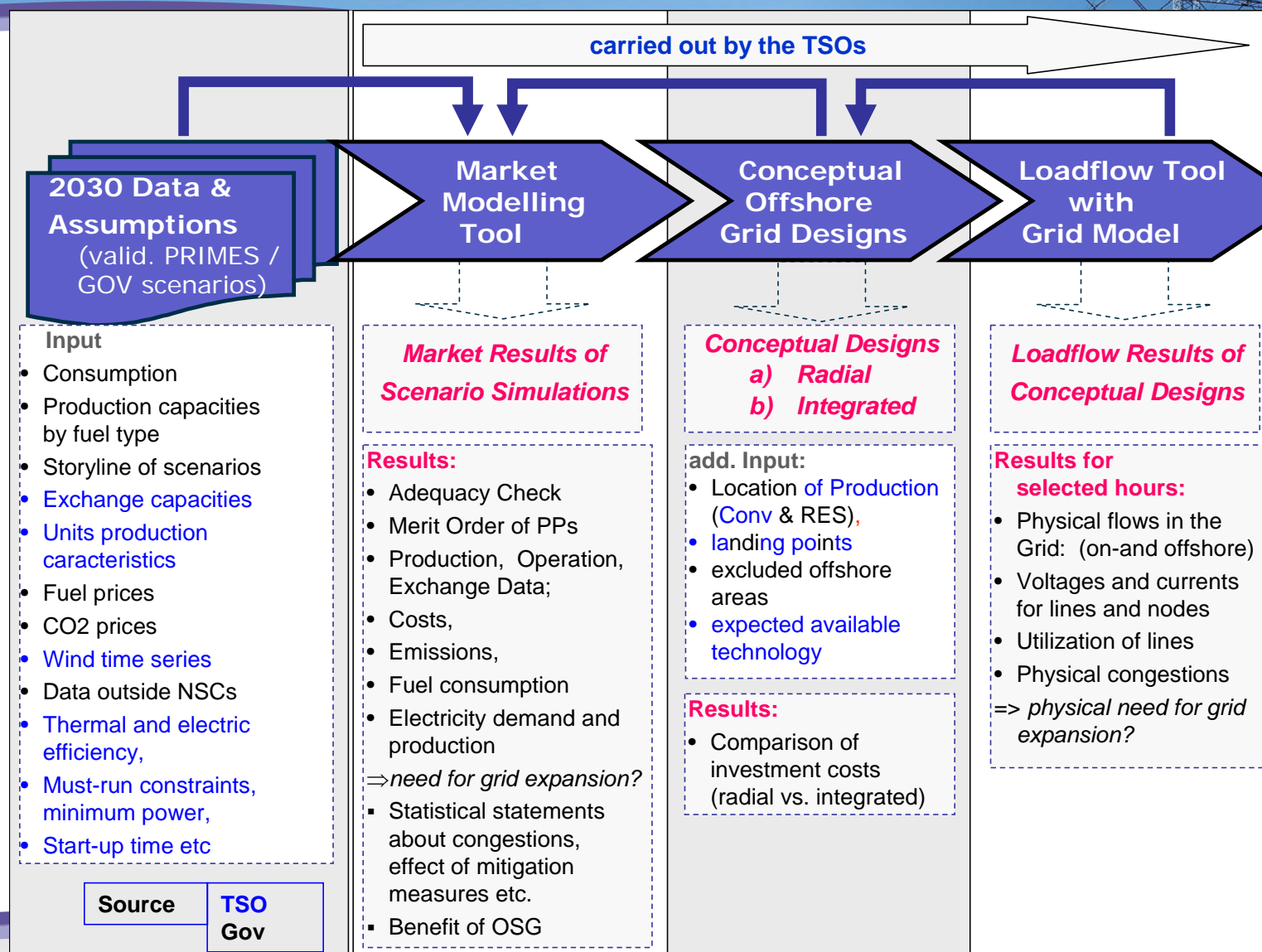
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Regulators

Industry

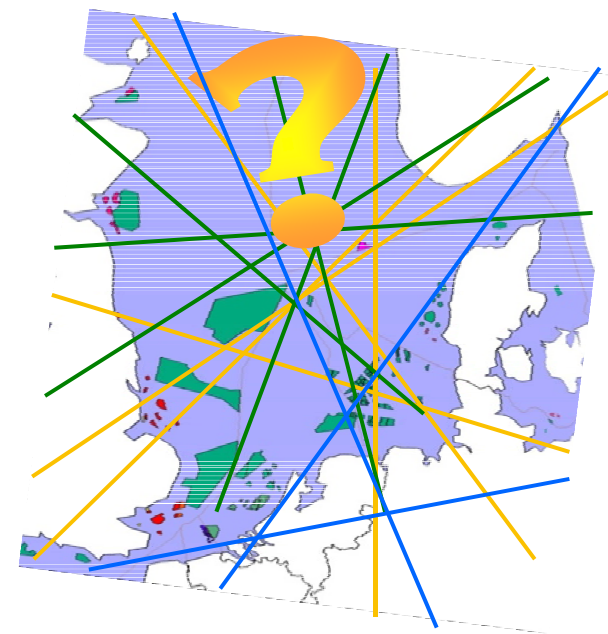
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North Sea Countries' Offshore Grid Initiative (NSCOGI)



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Thank You!



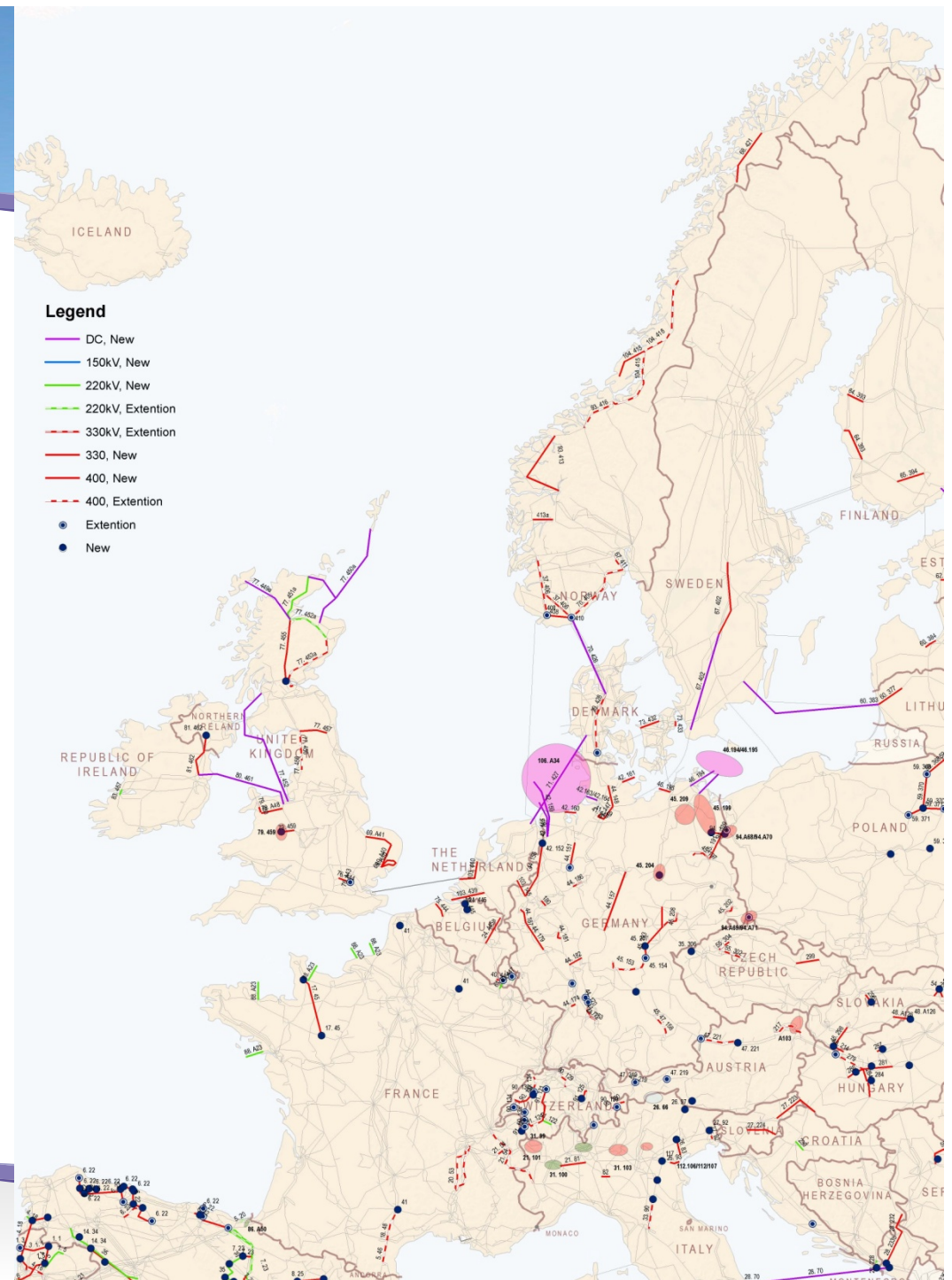
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MT Projects Map 2012-2016



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LT Projects Map 2017-2022

