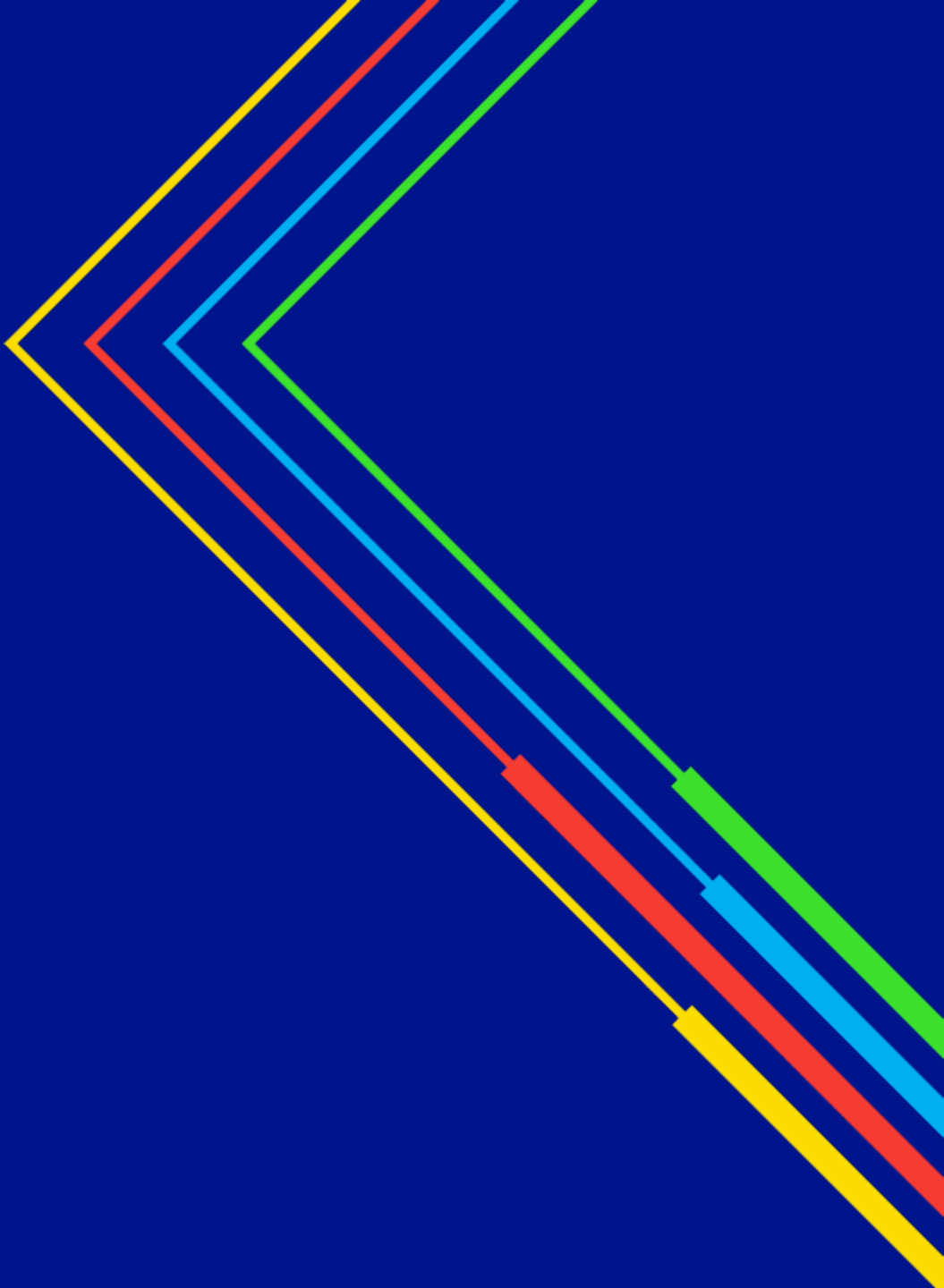


WEF: Challenges for transforming for the UK energy system to deliver Net Zero targets in time



Rebecca Sedler
Commercial, Customer & Regulation Director

14 July 2022

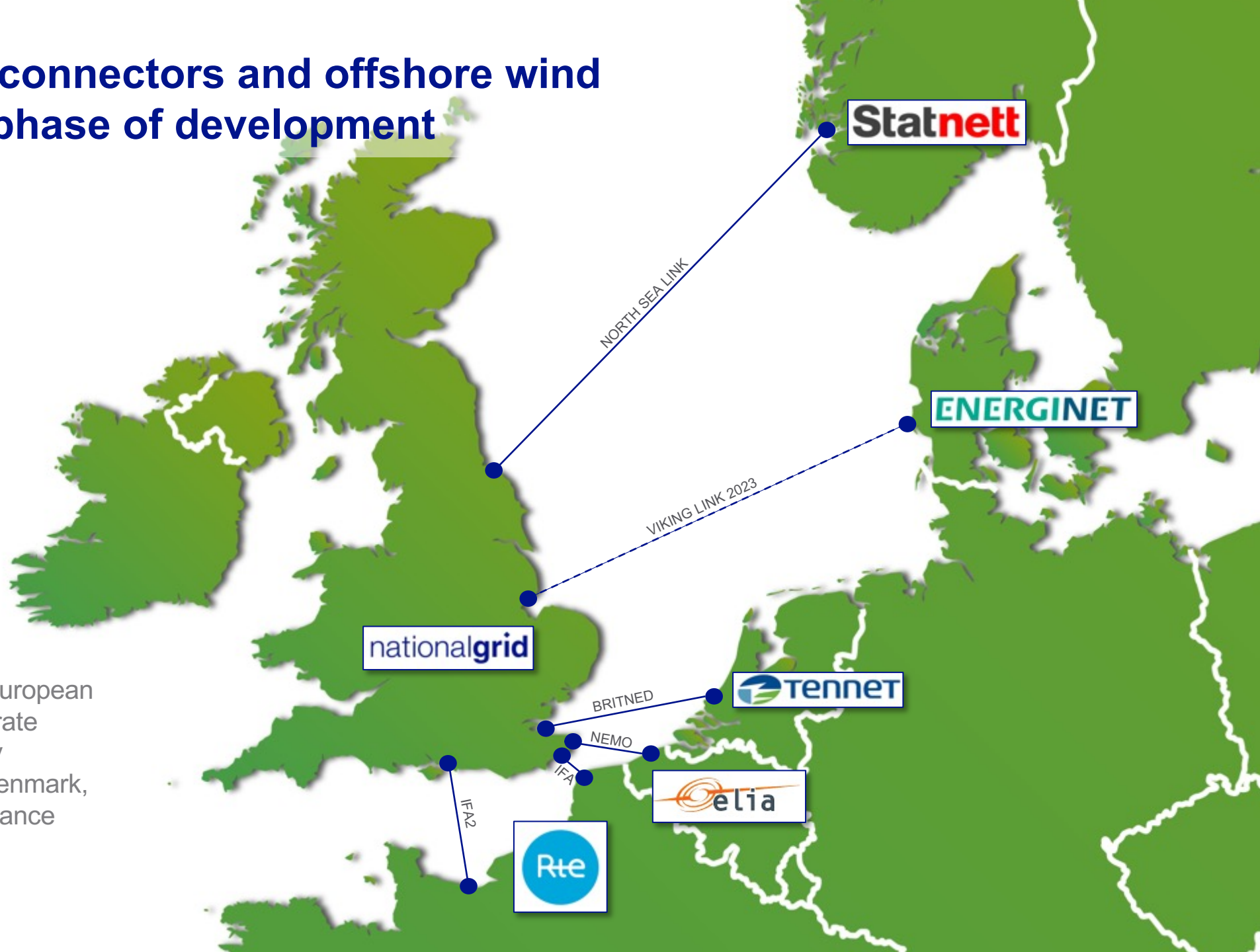
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Point-to-point interconnectors and offshore wind represent the first phase of development

8GW

By 2024 National Grid and our European partners will jointly own and operate ~8GW of interconnector capacity connecting the UK to Norway, Denmark, the Netherlands, Belgium and France

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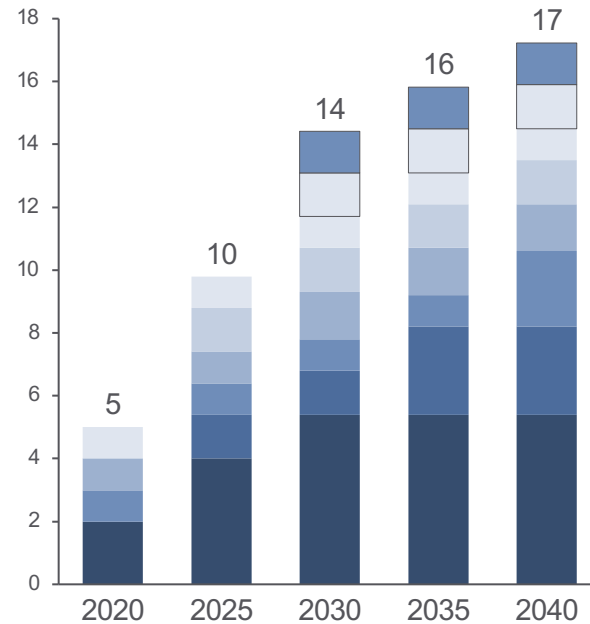


Renewables growth drives the need for interconnection, with interconnectors reducing consumer costs as well as helping to reduce carbon emissions

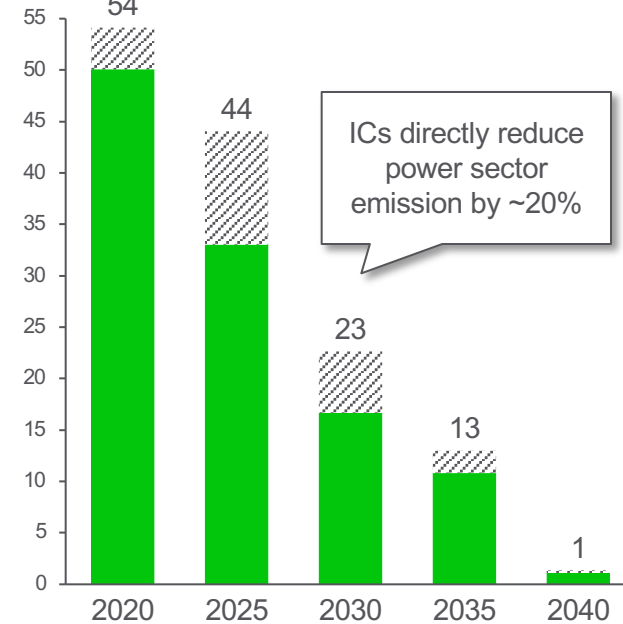
In this scenario the UK connects an additional 9 GW of MPI+P2P ICs to six EU countries...

...and over the next decade helps facilitate a significant fall in CO2 emissions

UK P2P + MPI Installed Capacity (GW)



UK CO2 emission reduction (Mt)

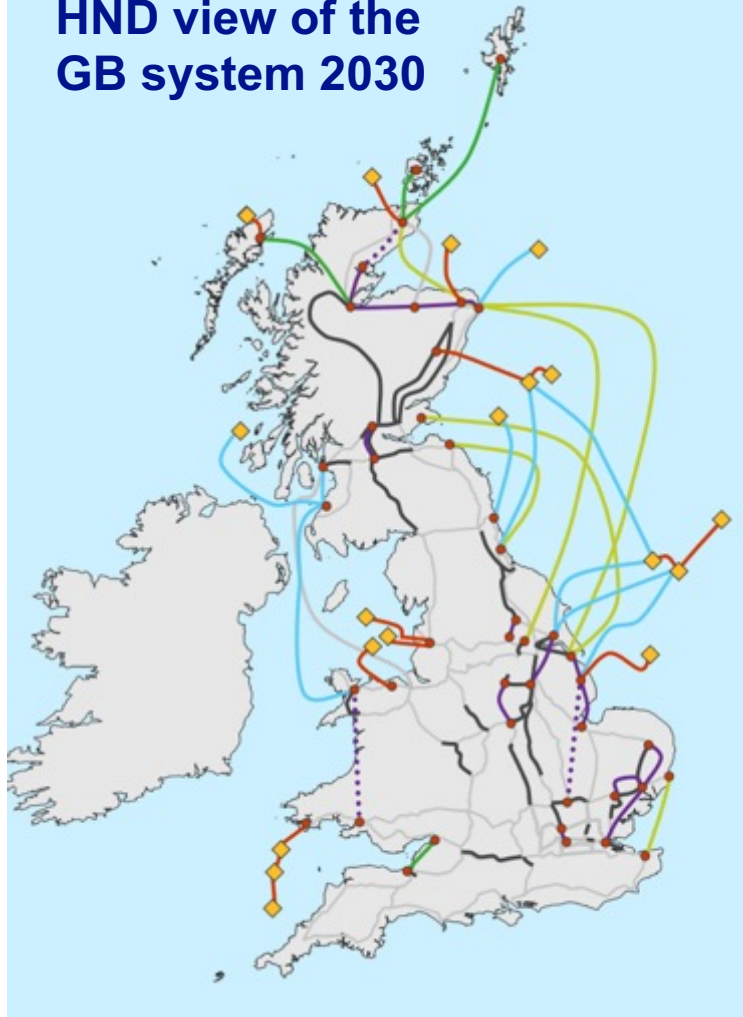


- Netherlands MPI
- Belgium MPI
- Belgium P2P
- Denmark P2P
- Ireland P2P
- Netherlands P2P
- Norway P2P
- France P2P

- ▨ IC avoided emissions
- GB Co2 emission in Base case scenario

Collaboration and coordination with European neighbours via hybrid assets will be critical to realise the full potential of the North Sea for consumers

HND view of the GB system 2030



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FIGURE 30
2050 vision: offshore wind power imports and exports



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