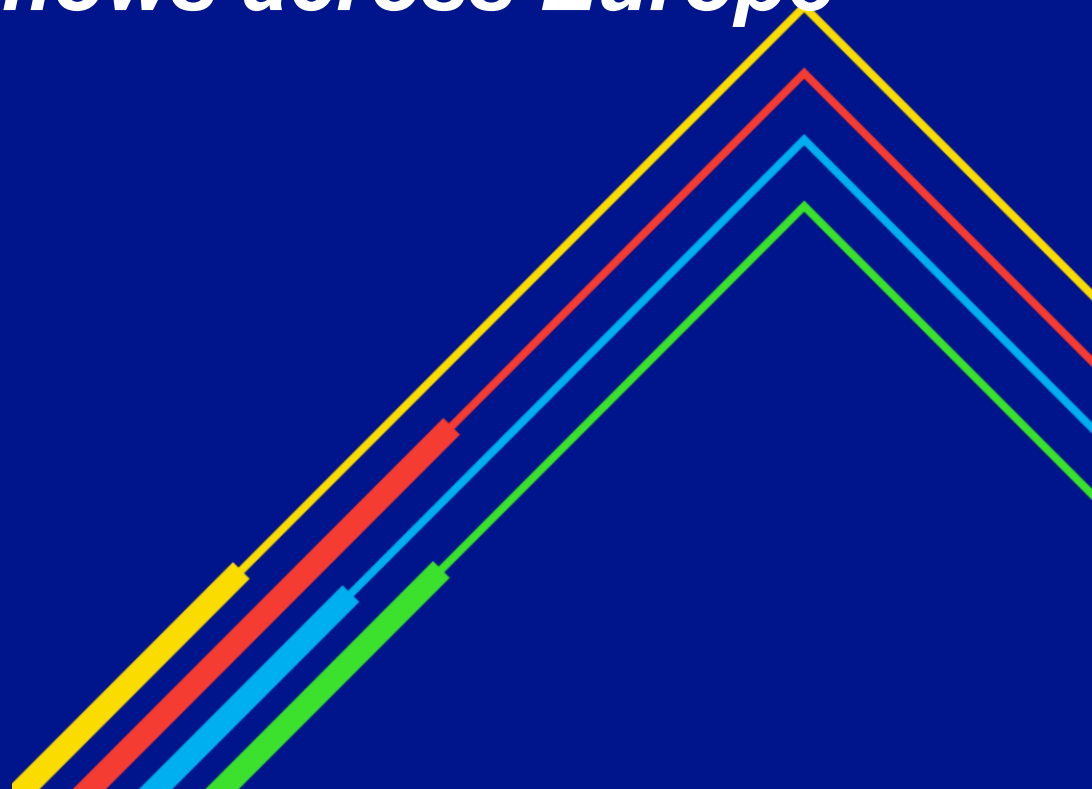


Hybrid offshore wind projects: optimising energy flows across Europe

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National Grid Ventures
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27 May 2021

national**grid**



onshore 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

National Grid | European Energy Forum | 27 May 2021



UK & EU towards net-zero together



TCA: climate goal – binding non-regression principle

2050 net-zero

 **55%**

 **78%**

GHG cuts by 2030/2035

Climate goals

 **300GW**

 **75GW**

Installed offshore wind capacity
by 2050

Offshore wind targets

 **15%**

 **18GW**

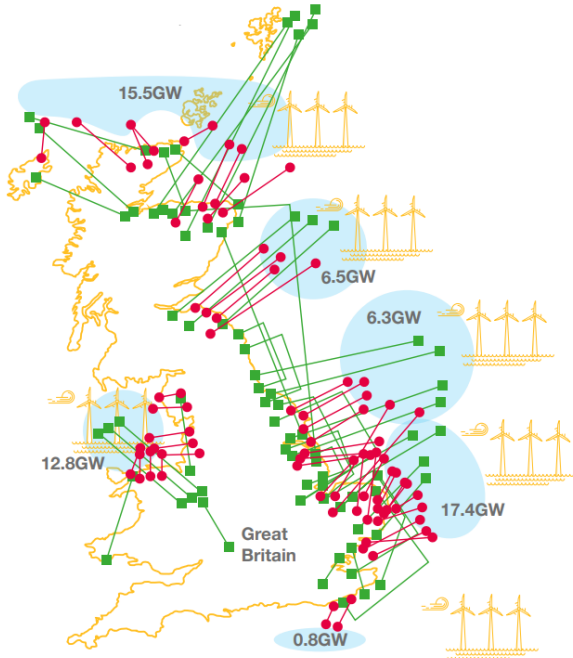
Interconnection by 2030

Interconnection goals

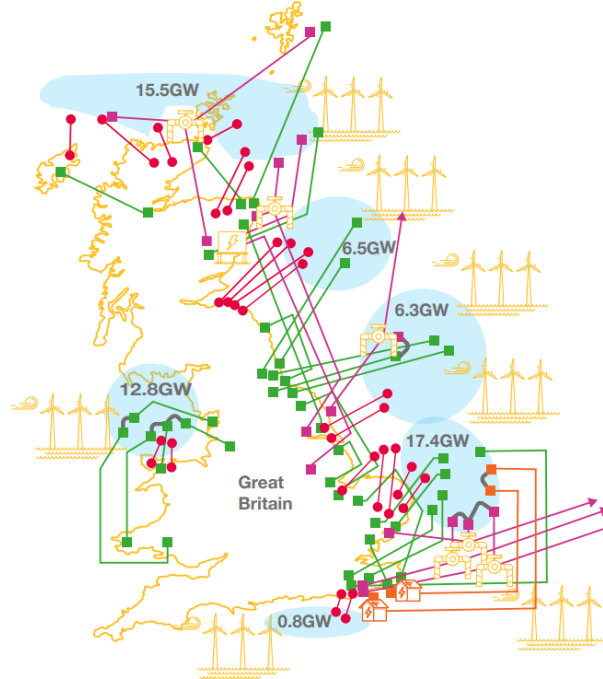
Offshore hybrid projects offer a cost-effective & environmental approach to achieve North Sea offshore wind targets



CURRENT APPROACH



INTEGRATED APPROACH



BENEFITS*

Landing points
105 to 30

Onshore & offshore cable
11,585km to 6735km

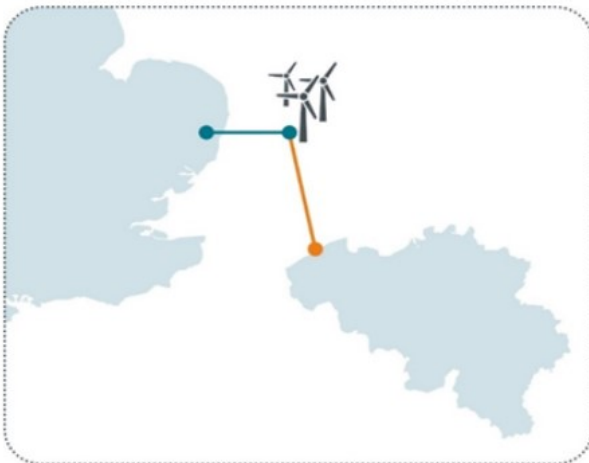
HVDC substations
57 to 20

NGV potential - hybrid projects in the North Sea by 2030



6.4GW of grid connections that can accelerate 6.4GW of GB offshore wind & up to 12.8GW in total in the North Sea to...

Nautilus would transport electricity between BE - UK (1.4GW) & connect offshore wind



Statnett



National Grid

Source: [Elia](#)



Building on relationships and track record with TSO partners

Working together we have the power to build a better way to connect and optimise offshore wind



TCA

FRAMEWORK FOR
EU-UK COOPERATION



TEN-E

WORKING TOGETHER
FOR ENERGY
TRANSITION



COP26

GLOBAL
LEADERSHIP

Thank you

