

# How to design HVDC for net-zero

Ben Gomersall, The National HVDC Centre

Graham Stein, National Grid ESO

Bless Kuri, SSEN Transmission

Daniel Yates, Carbon Trust

Hyunkeun and Jy Song, KEPCO

# 2030 Commitment = HVDC

## 1) HVDC required to connect offshore wind

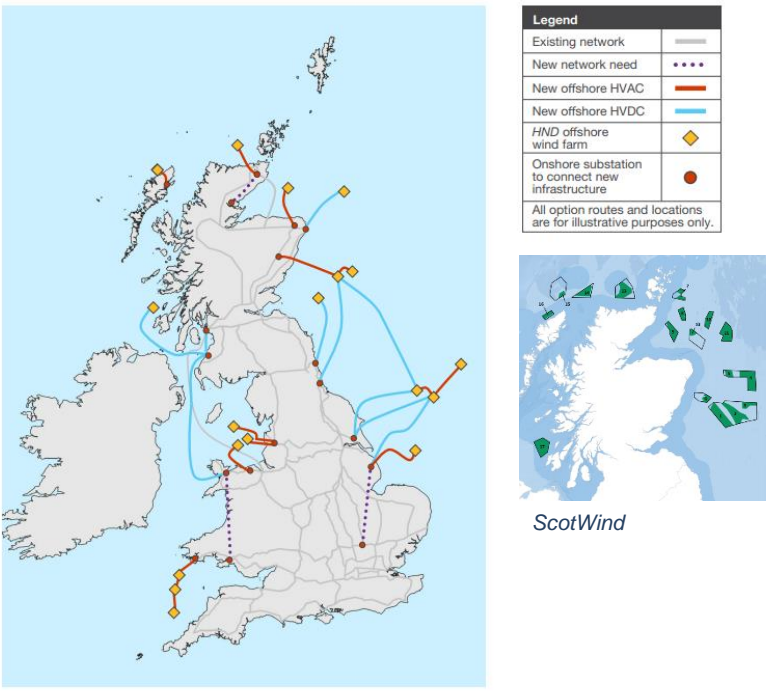


Figure 2: The new network needs identified through the HND.

## 2) HVDC required to reinforce the network

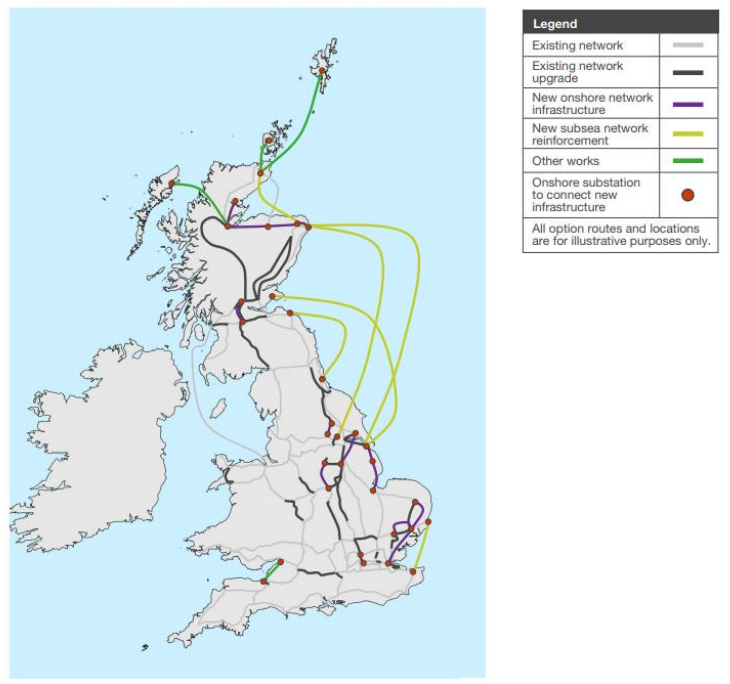
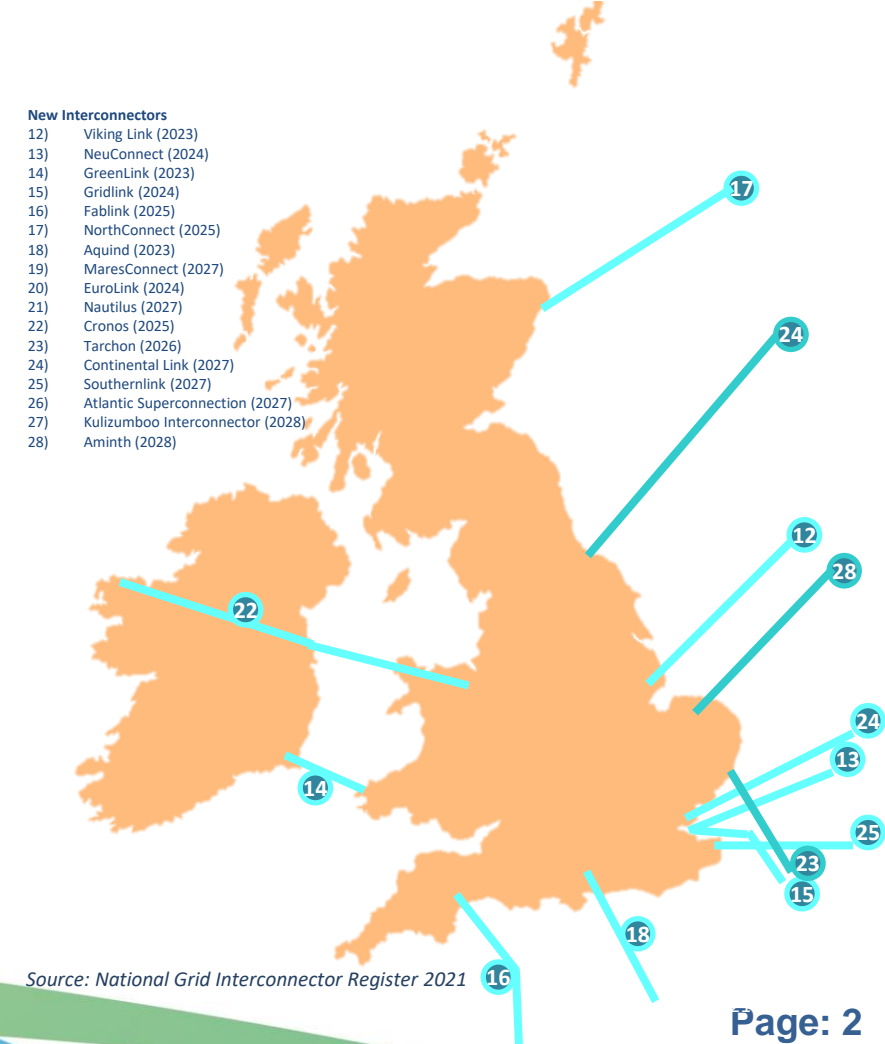


Figure 1: Those recommendations that have been identified as necessary previously.

## 3) HVDC required to Interconnect to Europe (&NI)



Source: National Grid Interconnector Register 2021

National Grid ESO, Holistic Network Design: <https://www.nationalgrideso.com/document/262676/download>

- Practicalities of Implementing the HND Designs - *Graham Stein, National Grid ESO*
- How the TOs are developing and delivering HVDC future network solutions - *Bless Kuri, SSEN Transmission*
- Developer insights on project in HVDC delivery - *Daniel Yates, Carbon Trust*
- International Net-Zero Network Design – *Hyunkeun Ku and Jy Song, KEPCO*

# Practicalities of Implementing the HND Designs - *Graham Stein, National Grid ESO*



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# How the TOs are developing and delivering HVDC future network solutions - *Bless Kuri, SSEN Transmission*



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**Coffee Break  
Back at 11:30**



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# Developer insights on project in HVDC delivery - *Daniel Yates, Carbon Trust*



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# International Net-Zero Network Design - *Hyunkeun Ku* *and Jy Song, KEPCO*



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## Q&A



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**Lunch**  
**Back at 14:00**

