

# **European North Sea Hydrogen Grid**

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## North Sea – our Powerhouse at the doorstep





### Raising full potential of offshore wind by offshore hydrogen production

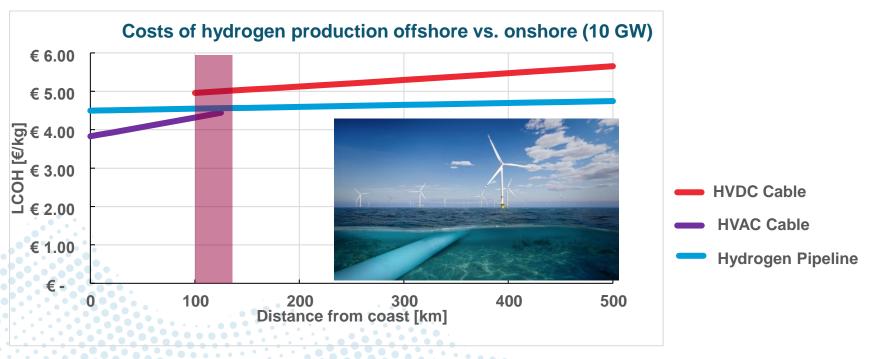
- ✓ Increasing security of supply in the hydrogen market through domestic production
- ✓ Diversification of green hydrogen sources
- ✓ Relief of power grid
- ✓ Optimization of the overall energy system







#### Advantages of an offshore hydrogen grid



Source: DNV Study 2023

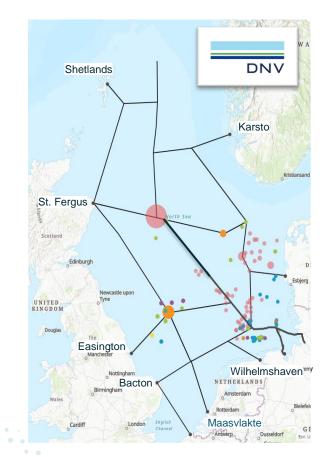


#### North Sea Cooperation: Strong political Commitment





Interconnected pipeline grid to leverage the hydrogen potential of the North Sea





#### Challenges so far...



- European coordination of offshore energy initiatives needed
- ➤ TEN-E offshore network development plan lacks hydrogen infrastructure
- Mixed grid connections for offshore energy production areas



#### Key requirements for offshore energy grids



- Coordinated Network Development Planning for electricity, hydrogen, on- and offshore
- ➤ Strong cooperation of ENNOH & ENTSO-E
- ➤ Cooperation on EU state level

