



# Renewable energy in The North Sea

Tobias Grindsted

*Team lead – Environmental team,  
offshore wind*

Danish Energy Agency





# GREEN POWER PLANT OF EUROPE

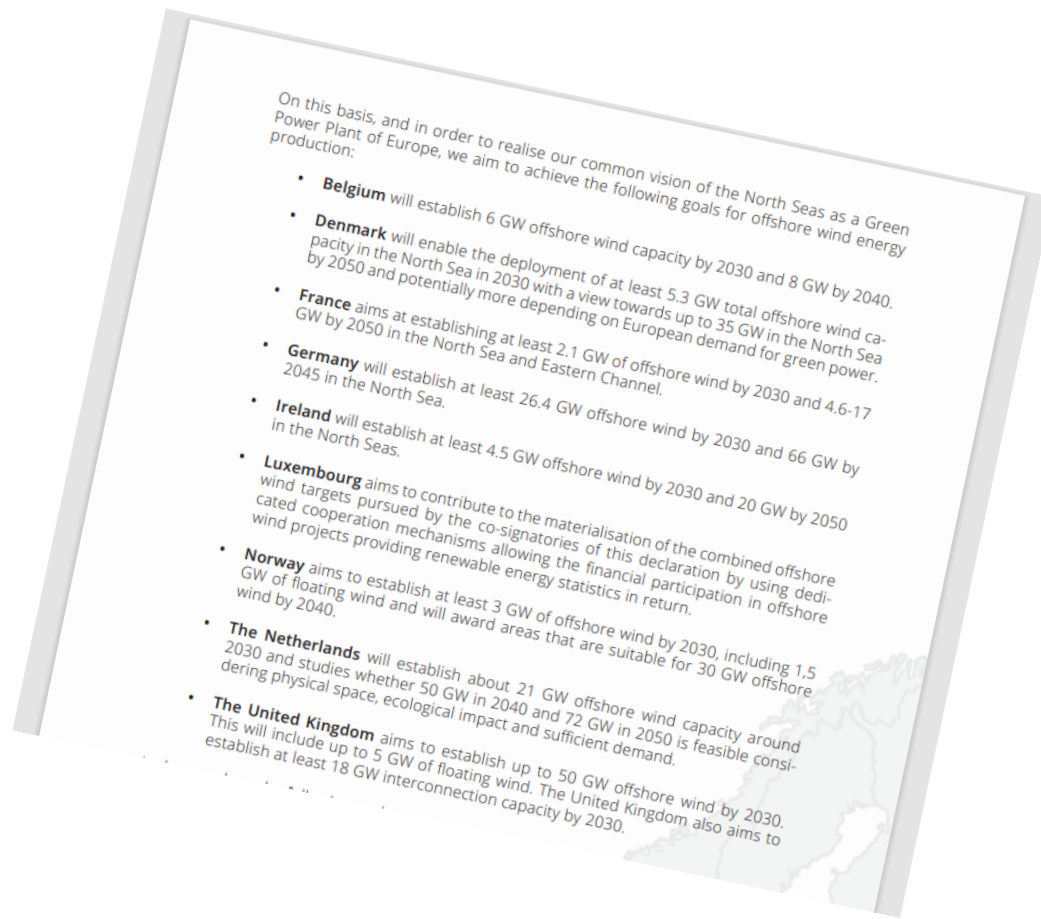
## Esbjerg Declaration (2022)

*Belgium, Denmark, Germany  
and the Netherlands*

## Ostend Declaration (2023)

*Belgium, Denmark, Germany,  
the Netherlands, France,  
Ireland, Luxembourg, Norway  
and the United Kingdom*

Common target of at least  
300 GW offshore wind by  
2050



# CURRENT STATUS AND FUTURE DEVELOPMENT - DK

## On-going tender for 6 GW offshore wind

- North Sea bidding ends December 2024
- KFII, Kattegat and Hesselø bidding ends april 2025
- Min. 6 GW capacity
- Optional grid connection and possibility for overplanting (no upper limit)

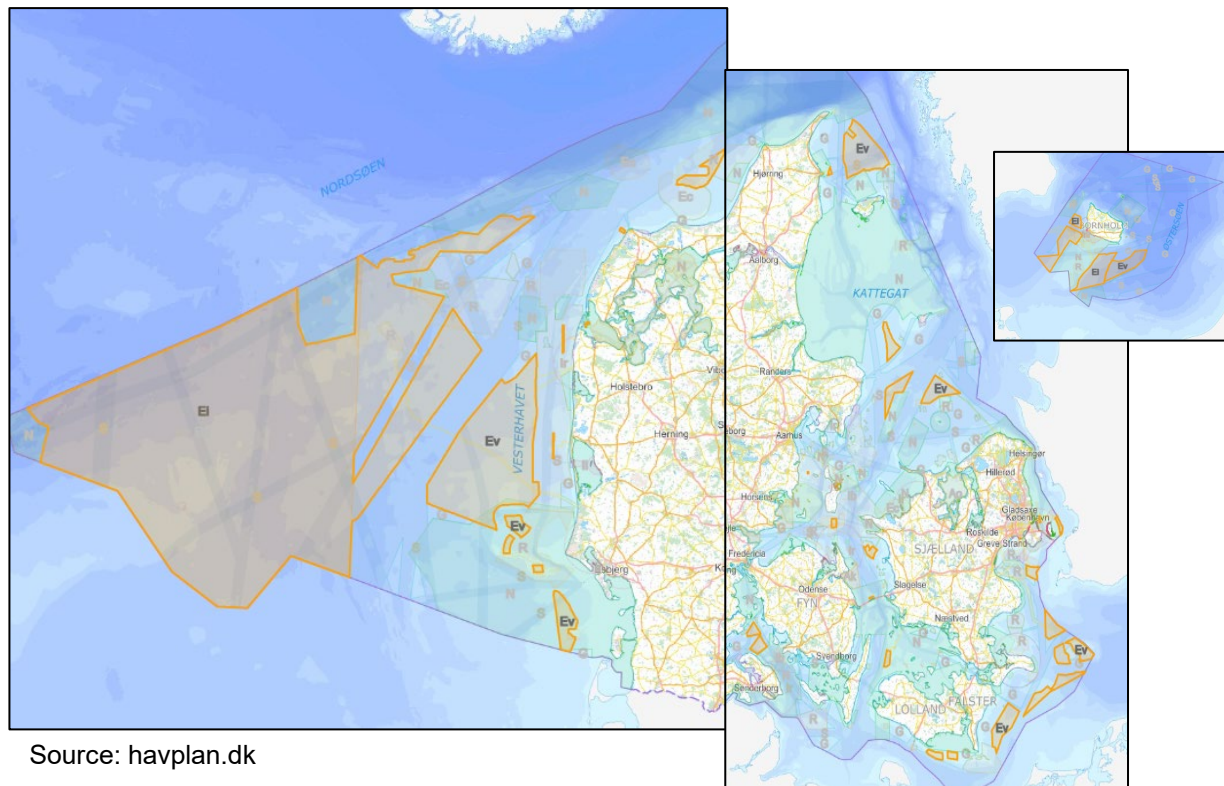


Source: ENS.dk

# CURRENT STATUS AND FUTURE DEVELOPMENT - DK

## Danish Maritime Spatial Plan – offshore renewable energy

- Approx. 30,000 km<sup>2</sup> designated for renewable energy
- No decisions yet on locations and capacity beyond current tender of 6 GW

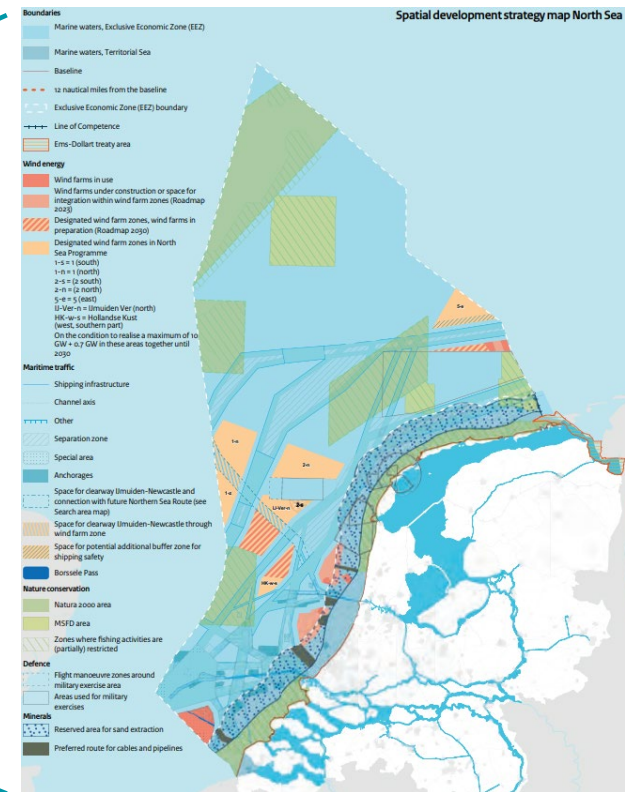
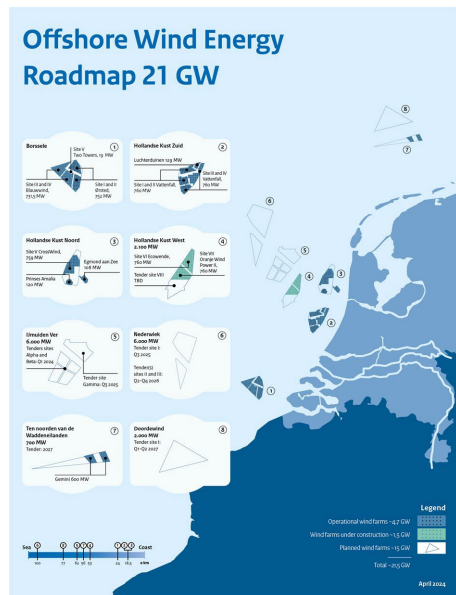


Source: havplan.dk

# DEVELOPMENT IN OTHER NORTH SEA COUNTRIES

## Netherlands

- Offshore wind target increased to 21 GW (by 2030)
- No decisions on location and capacity beyond 2030 (as far as I know)

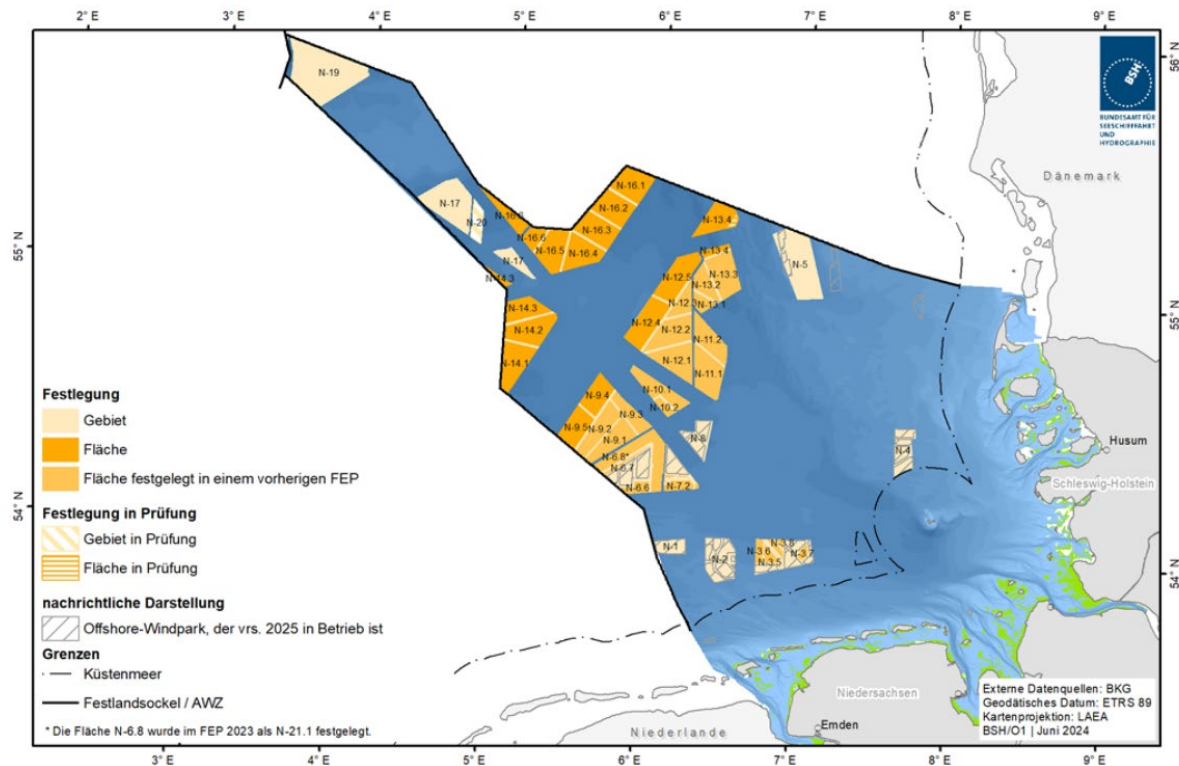


Source: North Sea Programme 2022-2027 and Offshore Wind Energy Roadmap 21 GW (noordzeeloket.nl)

# DEVELOPMENT IN OTHER NORTH SEA COUNTRIES

## Germany

- Offshore wind target of 30 GW by 2030, 50 GW by 2035 and 70 GW by 2045
- Details on areas, timelines and commissioning in Draft Site Development Plan (published 7. June 2024)



Source: BSH (2024): Draft – Site Development Plan, 7. June 2024



Thank you