



Ministry of Infrastructure and the  
Environment



# Work Programme Maritime Spatial Planning

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co-chair

# VISION IABR: NORTH SEA 2050?





## Priority topics within Support Group 1

- Coordinating the planning and development of offshore wind and grid projects beyond national borders including area mapping;
- Developing a common environmental assessment framework;
- Increasing the availability and interoperability of marine data for planning, impact assessment, licensing and operations;

### Later phase:

- Exchanging best practices on site preparation and the handling of unexploded ordnance;
- Exchanging best practices on permitting procedures and work on the modalities of a coordinated permitting process for concrete regional or sub-regional joint offshore projects.



## Objective 1 Outline of a coherent wind energy plan

- What are possible areas of the North Sea (both national and international) which could be developed for wind energy?
- How would these be integrated into existing or future maritime spatial plans?
- What time horizon is logically connected to these areas, based on the demand for offshore renewables?
- Can these potential areas be developed according to different scenarios?
- What is the relation to other uses in these areas?
- How can these relations reduce macroeconomic and societal costs?
- What could be limiting or critical factors which hamper the development of these areas?
- Which stakeholders need to be involved? And how will they be involved at which stage?



## Objective 2 Common environmental assessment framework

- What are the common ambitions of parties that will work on a common method
- What methods of environmental assessment are available in the participating countries and what are the common elements?
- Which method can be applied when accumulating environmental impacts?
- What type of data, information and knowledge is (more) required?
- What research is further needed?
- Can there be a synchronisation/coordination between the national SEA procedures when establishing/changing the plans?
- What are the industry requirements (good practice of procedures, list differences and list the order of importance for harmonization)?
- Which stakeholders need to be involved? And how will they be involved at which stage?



## Objective 3 Marine data

- What further data and information are required?
- How can data portals be linked to EMODnet?
- What standards best support harmonisation of additional marine data not covered by EMODnet across national boundaries, are these currently supported, and how do we ensure data cohesion?
- What are the regulatory needs?
- What are the industry needs? What do they have, want and need (to reduce costs)?



## Existing initiatives and projects

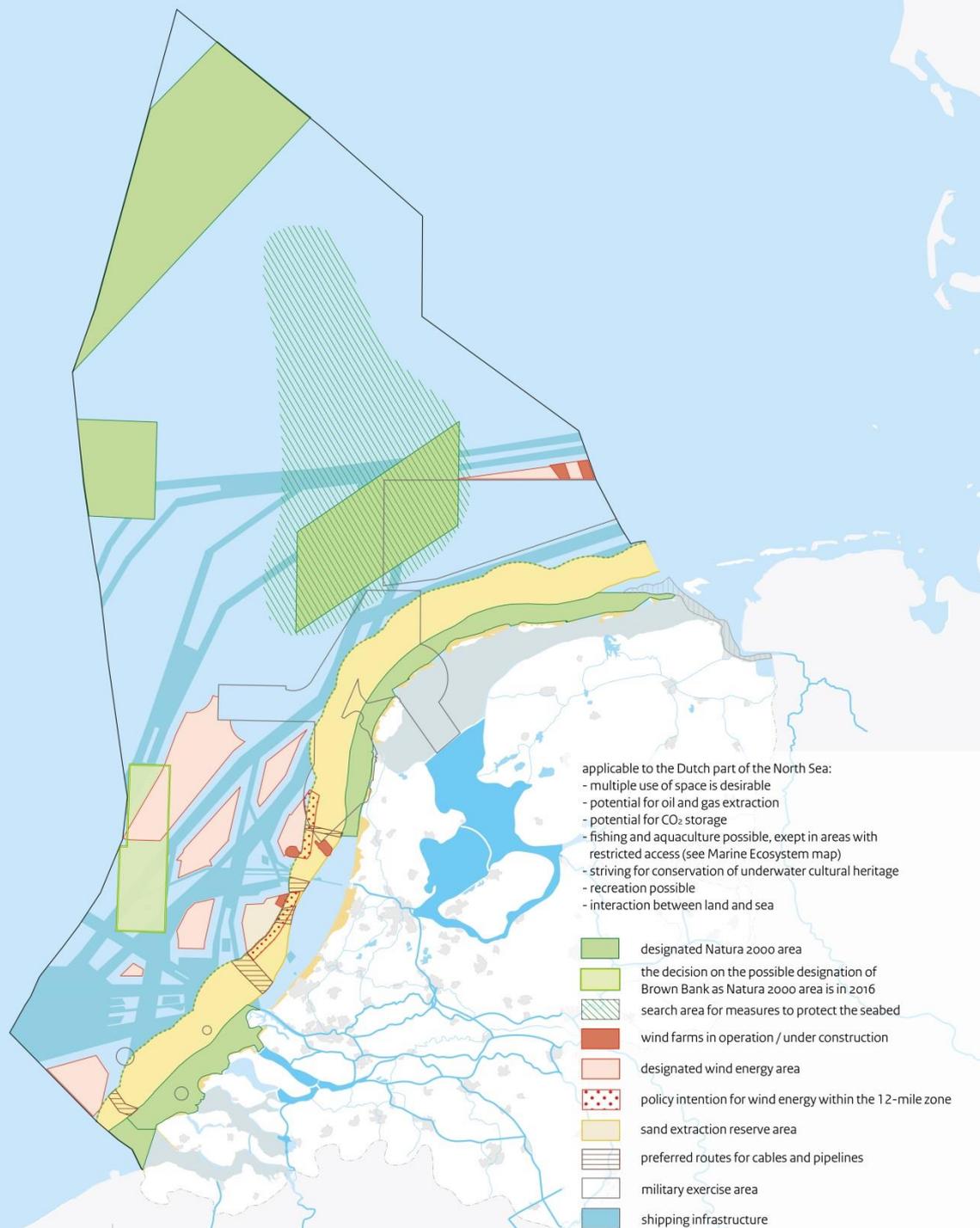
- Intergovernmental Offshore Wind Forum
- EC Expert group on MSP and informal North Sea group
- INTERREG project NorthSEE
- EMODNET Data ingestion project
- OSPAR
- ICES Working group on Marine Renewable Energy
- International Hydrographic Organisation's Baltic and North Sea Regional Hydrographic Commissions' sub-group on marine spatial data infrastructure
- International Energy Agency WREN
- WindSpeed (2008-2011)
- BEAGINS



## Links with other Support Groups

- Plans and ambitions of wind projects/scenario's to be used
- Time horizon(s): 2023 – 2030 - 2050
- Grid connections
- Technical innovations
- Involvement of stakeholders

# Maritime Spatial Plan as part of the North Sea Policy 2016-2021



**Offshore Windparks**

- In Betrieb
- Im Bau
- genehmigt
- beantragt
- Netzzusage / Kapazitätszuweisung
- Antrag / UNAZ bzw. Zuweisung

**Naturschutzgebiete**

- Natura2000 SCI
- Natura2000 SPA

**Raumordnung**

- Vorranggebiet Windenergie
- Vorranggebiet Schifffahrt
- Vorbehaltsgebiet Schifffahrt
- Vorbehaltsgebiet Forschung

**BFO-N 2013/2014**

- Cluster für Offshore-Windparks
- Veränderungssperre 2015

**Offshore-Netzentwicklungsplan**

- Zone 1
- Zone 2
- Zone 3
- Zone 4
- Zone 5

**Schifffahrt**

- Verkehrstrennungsgebiet

**Energie-Plattformen (BFO)**

- Umspannplattform, in Betrieb
- Umspannplattform, in Bau
- Umspannplattform, genehmigt
- Umspannplattform, beantragt
- Konverterplattform, in Betrieb
- Konverterplattform, in Bau
- Konverterplattform, genehmigt
- Konverterplattform, beantragt
- Konverterplattform, geplant

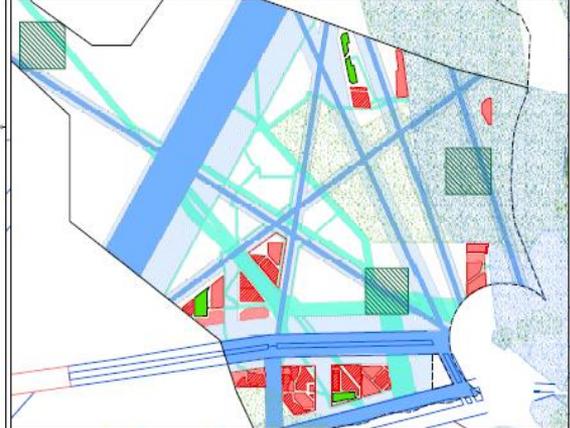
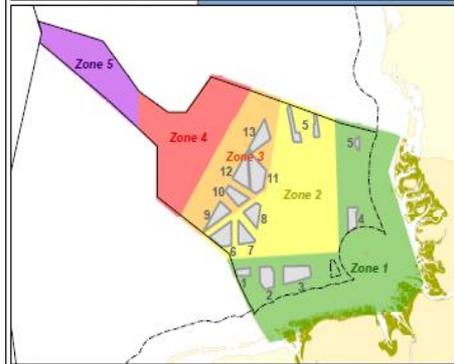
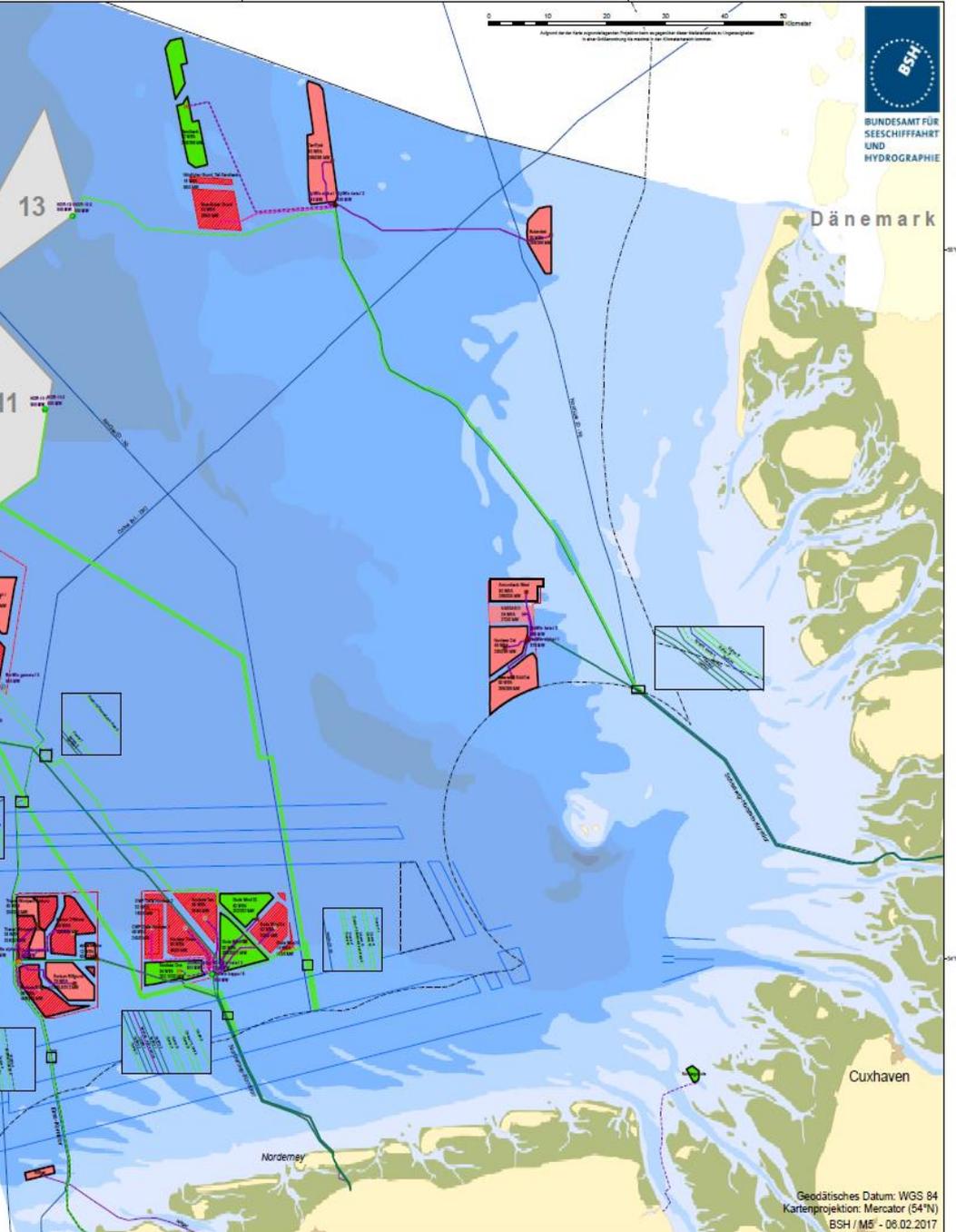
**Kabel (BFO)**

- grenzüberschreitendes Seekabelsystem
- Gleichstrom-Seekabelsystem, in Betrieb
- Gleichstrom-Seekabelsystem, in Bau
- Gleichstrom-Seekabelsystem, genehmigt
- Gleichstrom-Seekabelsystem, beantragt
- Gleichstrom-Seekabelsystem, geplant
- Drehstrom-Seekabelsystem, in Betrieb
- Drehstrom-Seekabelsystem, in Bau
- Drehstrom-Seekabelsystem, genehmigt
- Drehstrom-Seekabelsystem, beantragt
- Drehstrom-Seekabelsystem, geplant

**Grenzen**

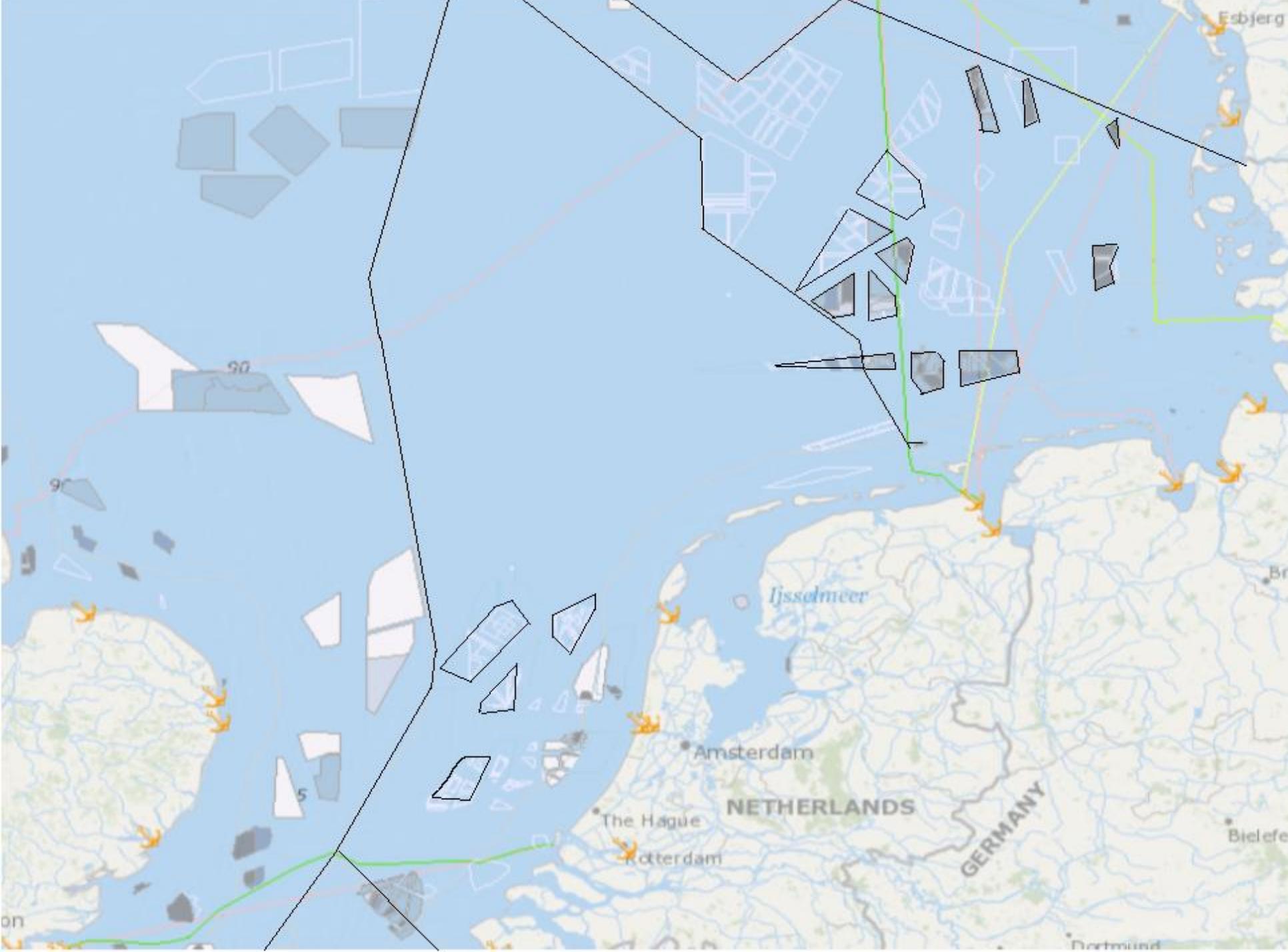
- 12-Seeemilienzonen/Küstenmeer
- Festlandssockel/AWZ

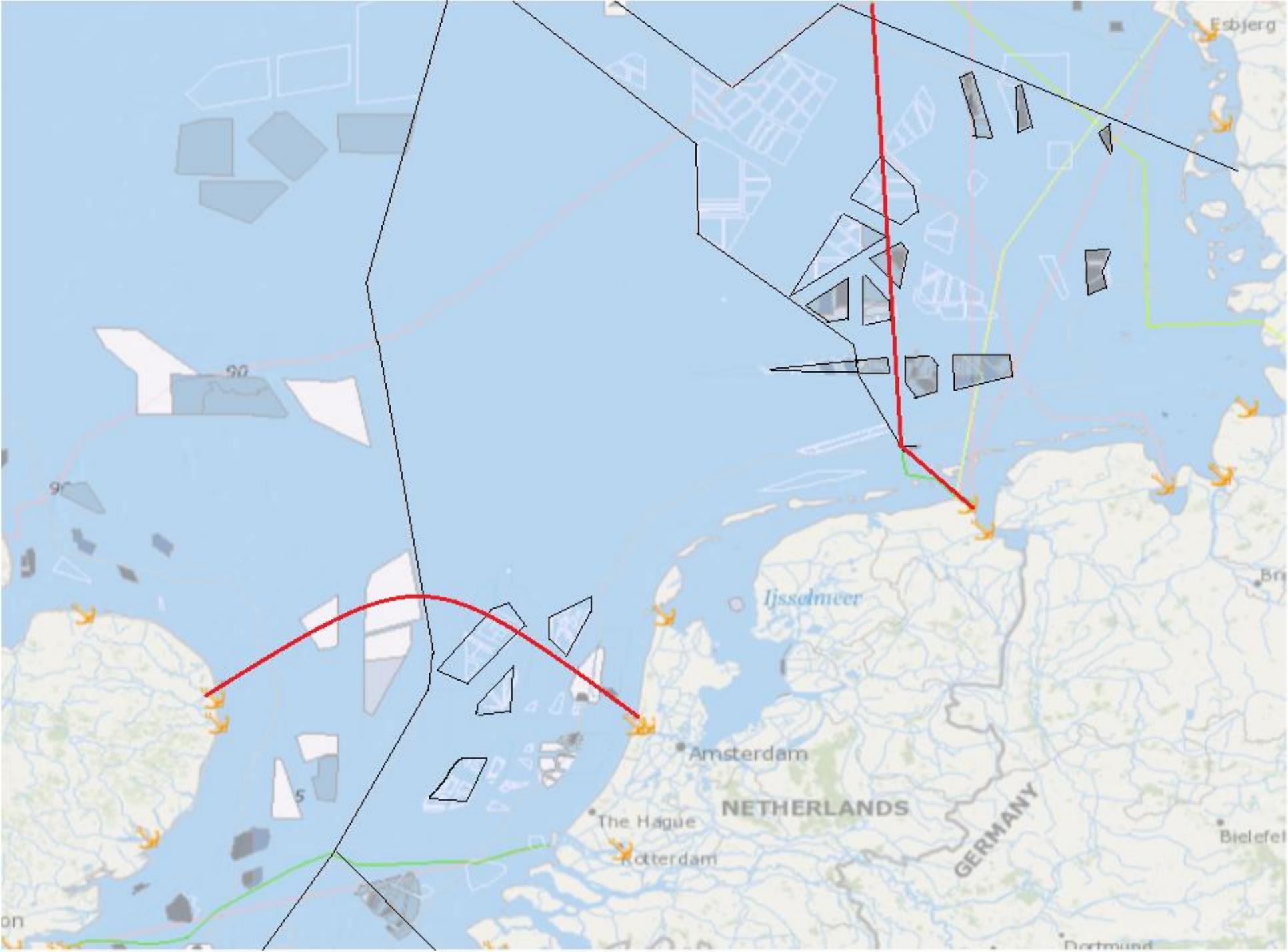
Cluster	Leistung (MW)	Arbeitsbereich (km²)	Startzeitpunkt
WOW11 + W024	1200,0	300	2015
WOW12 + W024	1200,0	300	2015
WOW13 + W024	1200,0	300	2015
WOW14 + W024	1200,0	300	2015
WOW15 + W024	1200,0	300	2015
WOW16 + W024	1200,0	300	2015
WOW17 + W024	1200,0	300	2015
WOW18 + W024	1200,0	300	2015
WOW19 + W024	1200,0	300	2015
WOW20 + W024	1200,0	300	2015
WOW21 + W024	1200,0	300	2015
WOW22 + W024	1200,0	300	2015
WOW23 + W024	1200,0	300	2015
WOW24 + W024	1200,0	300	2015
WOW25 + W024	1200,0	300	2015
WOW26 + W024	1200,0	300	2015
WOW27 + W024	1200,0	300	2015
WOW28 + W024	1200,0	300	2015
WOW29 + W024	1200,0	300	2015
WOW30 + W024	1200,0	300	2015

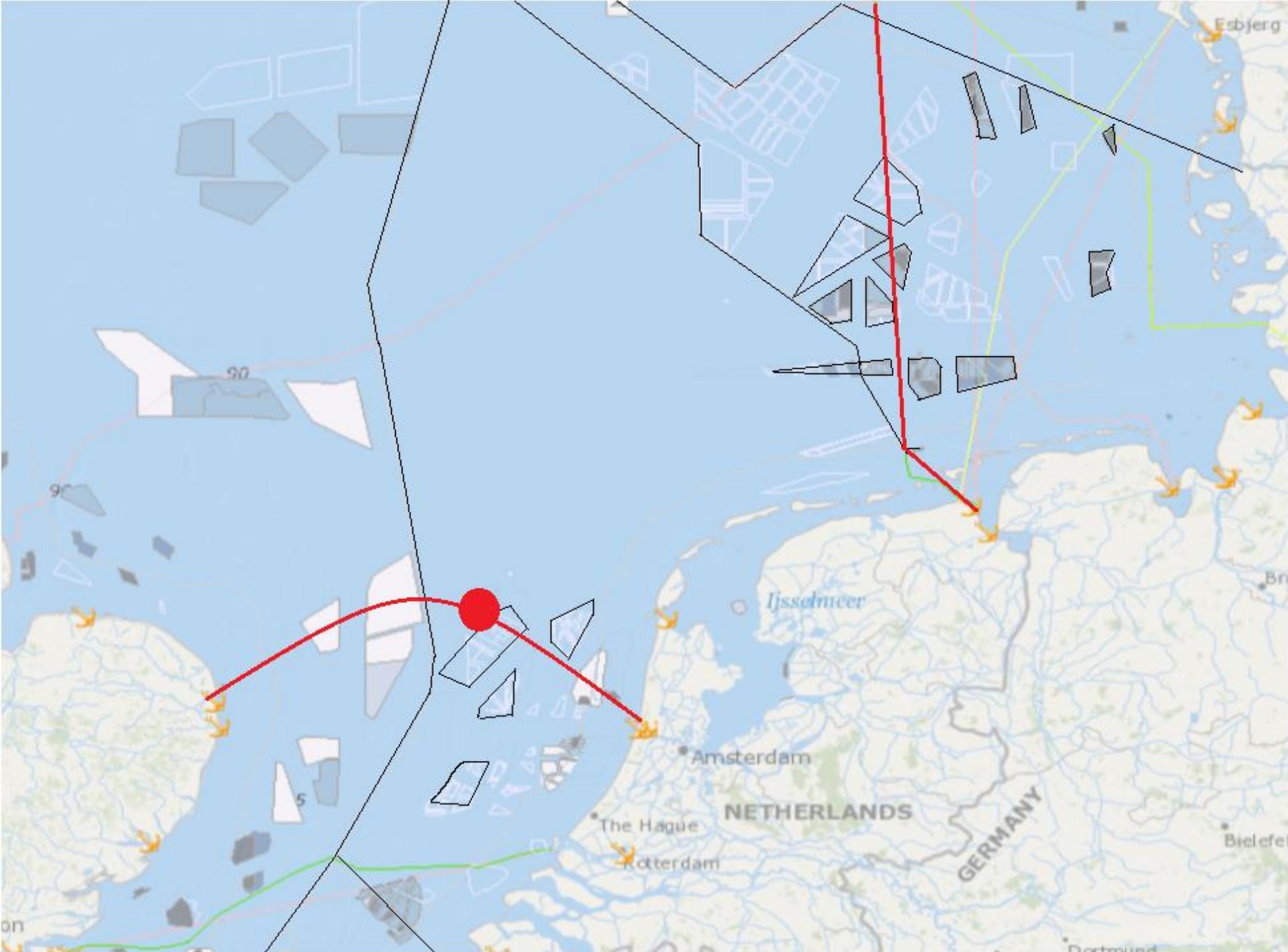


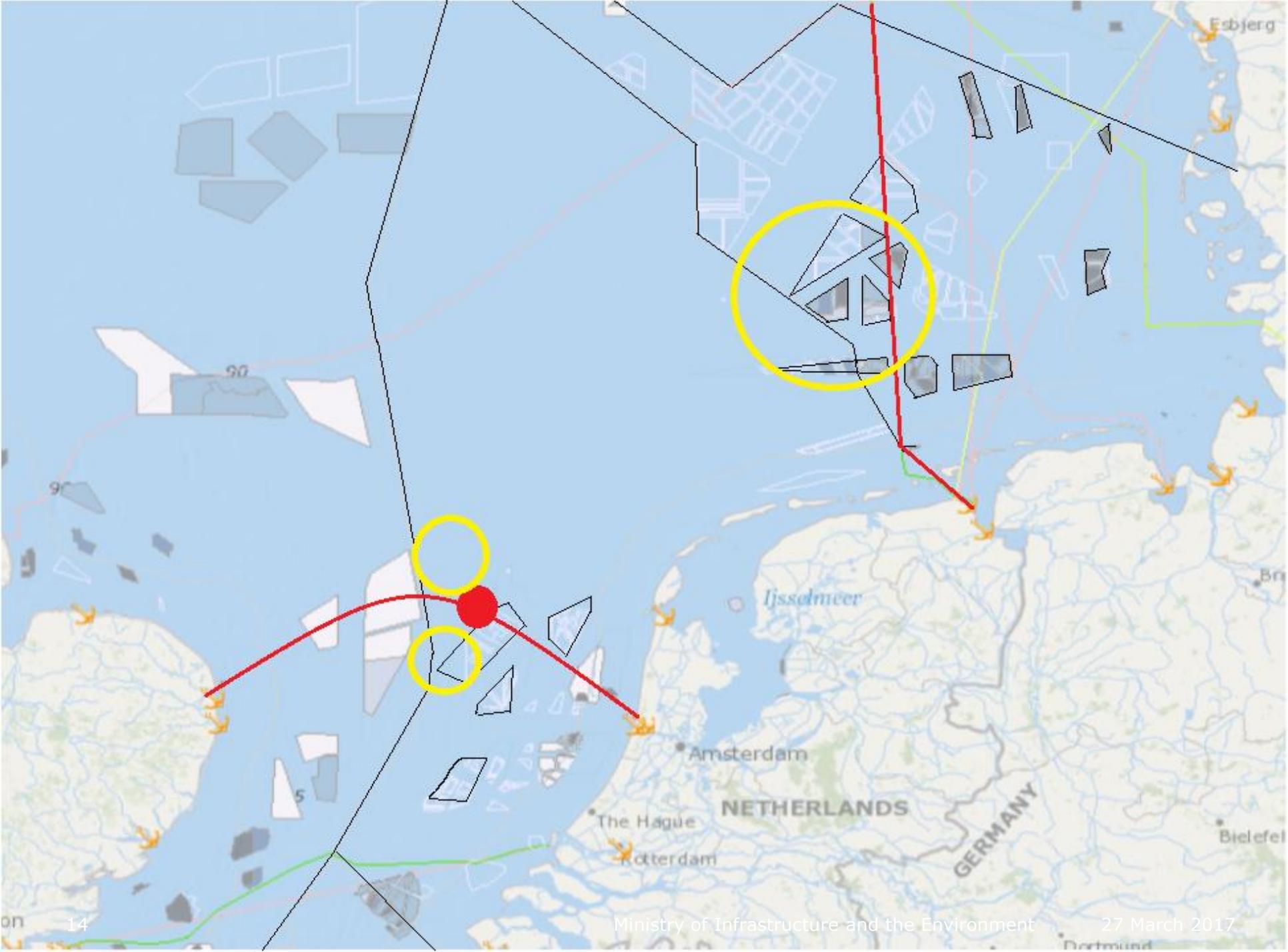
Dänemark

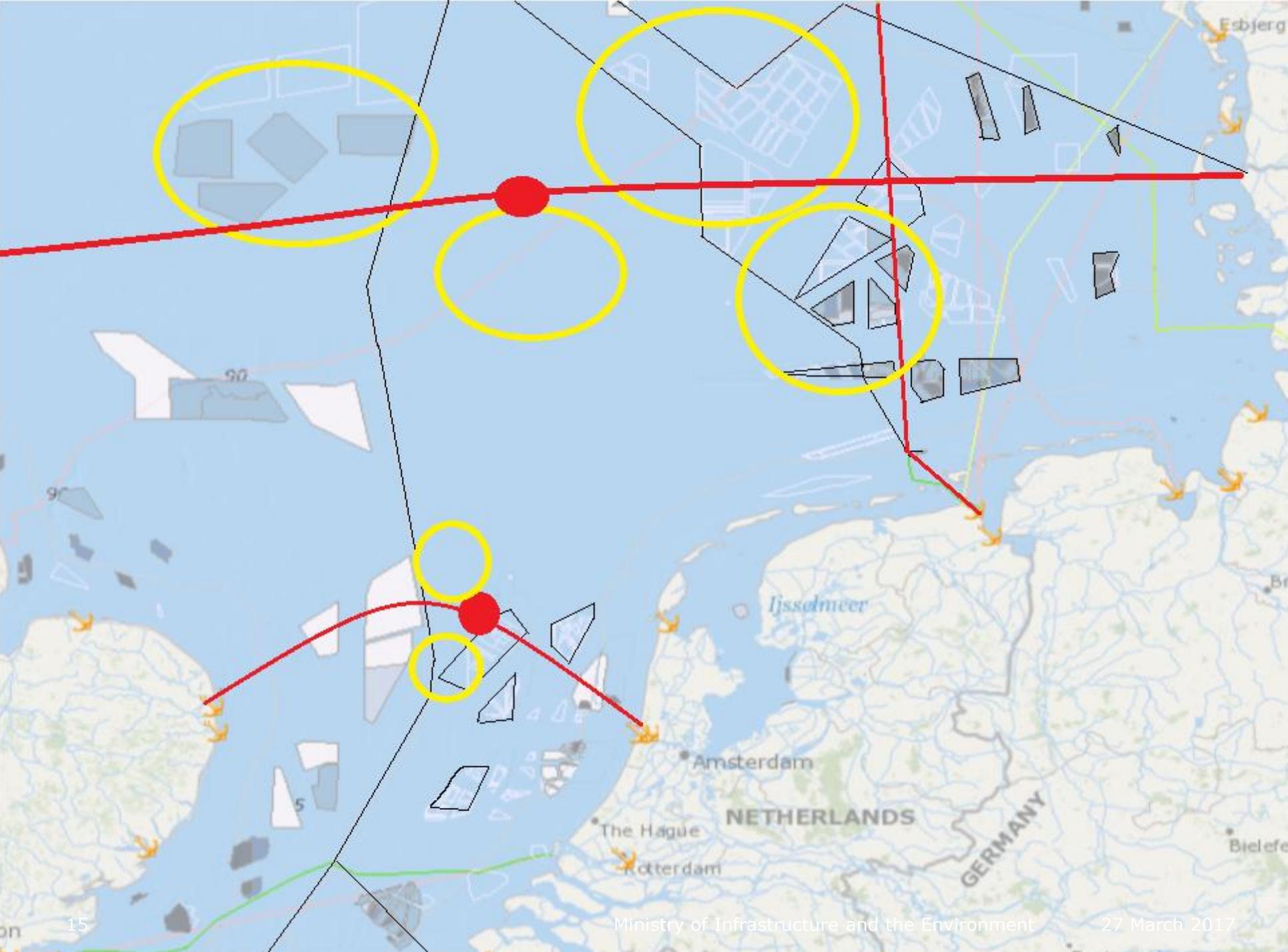
Cuxhaven







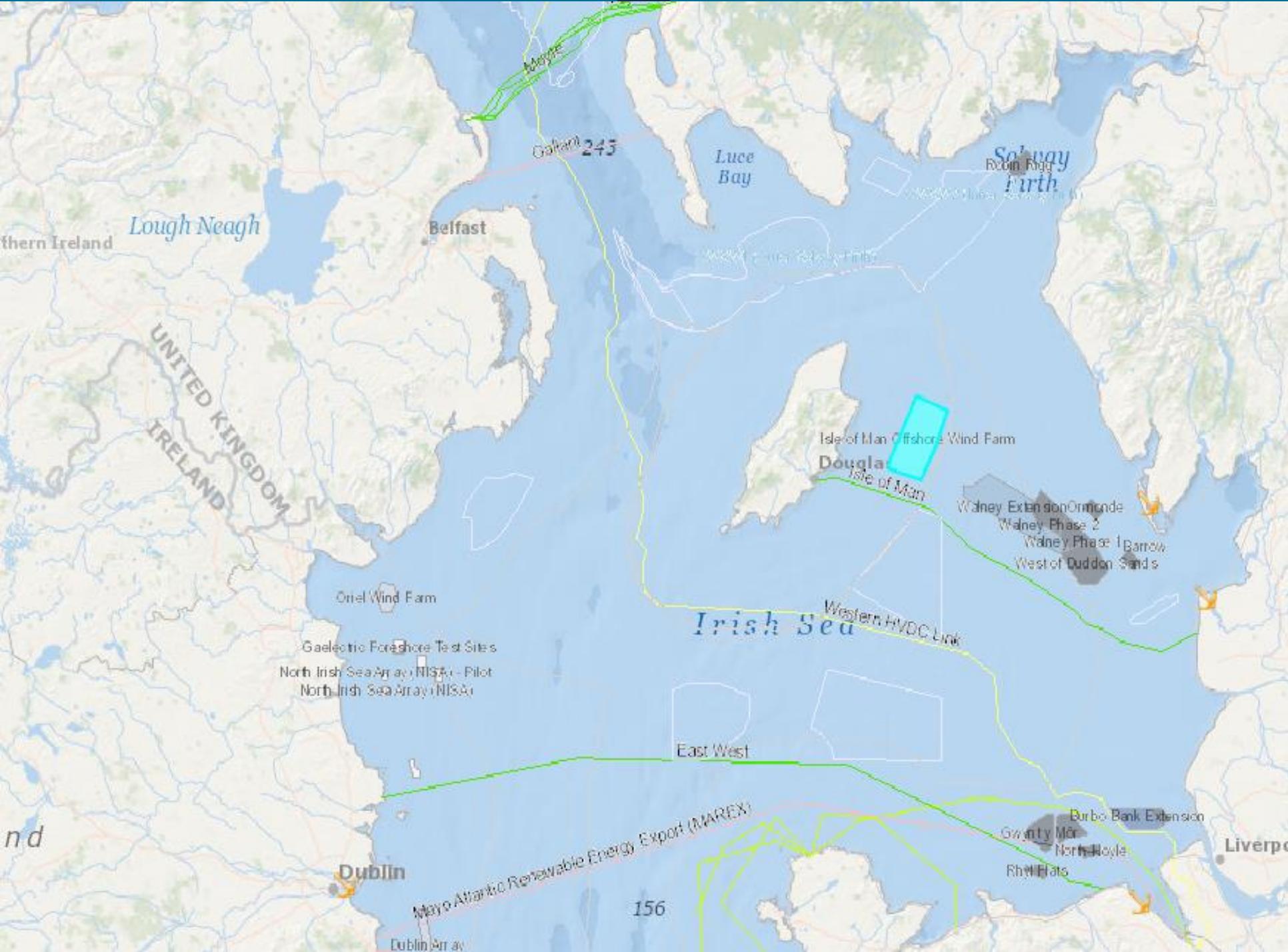






# Dogger Island







## Further questions to be solved by SG 1

- What is the relation to other uses in these areas?
  - Shipping (incl. ferries), Fishing, Mining, Military, Recreation
    - Design criteria
  - Distance between and capacities of cables/convertor/transformer
  - Density (MW/km<sup>2</sup>)
- What could be limiting or critical factors which hamper the development of these areas?
  - Cumulative impact on the ecosystem/species
    - Assessment framework
- What further data and information are required?
  - Regulatory and industry needs



# Questions?

## Useful link

<https://ec.europa.eu/energy/en/topics/infrastructure/north-seas-energy-cooperation>

