

BELGIAN OFFSHORE WIND ENERGY NEXT STEPS AND TIMING

Directorate general Energy
Brussels – 26/05/2023

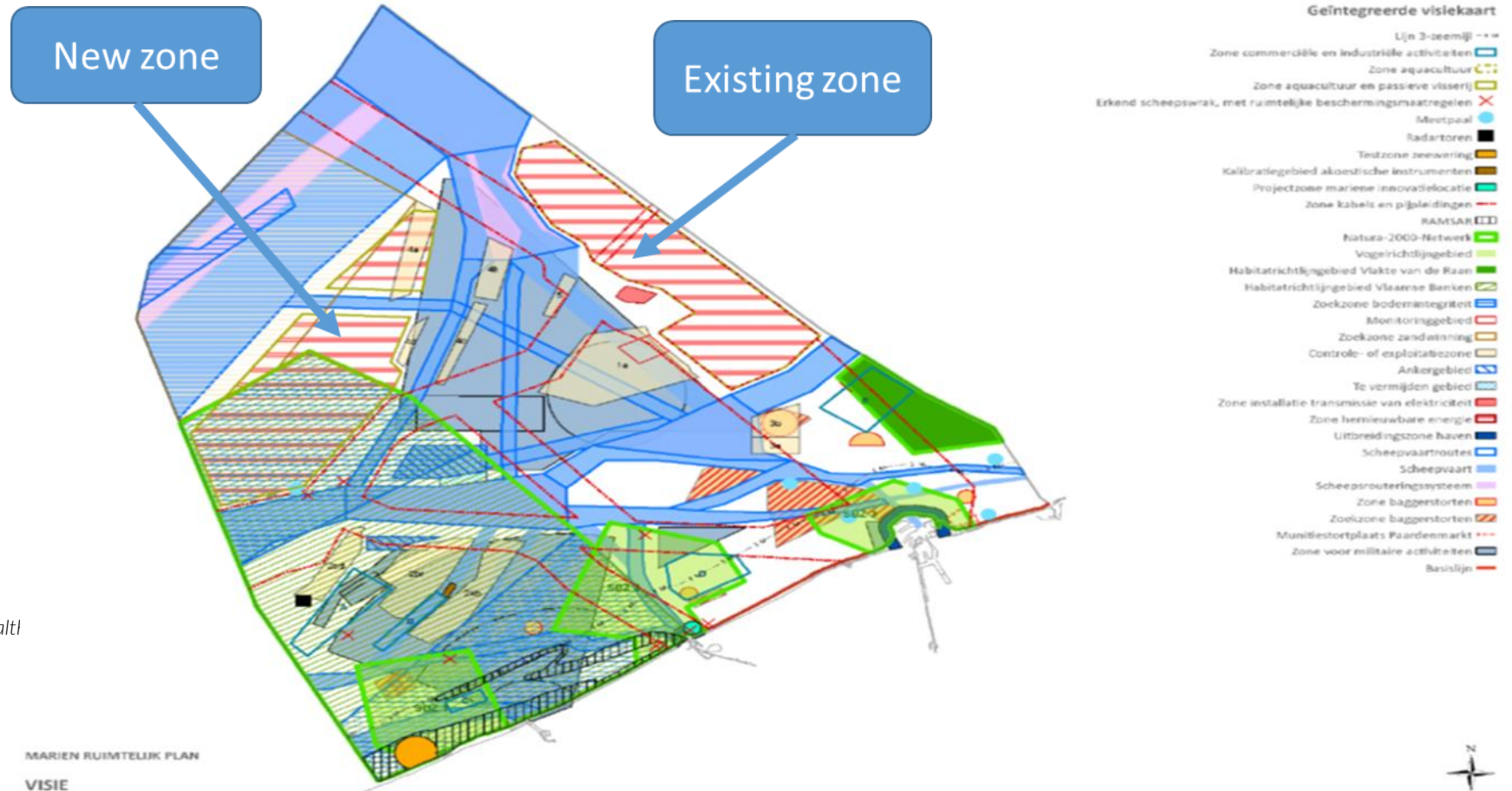


FPS Economy, S.M.E.s, Self-employed and Energy

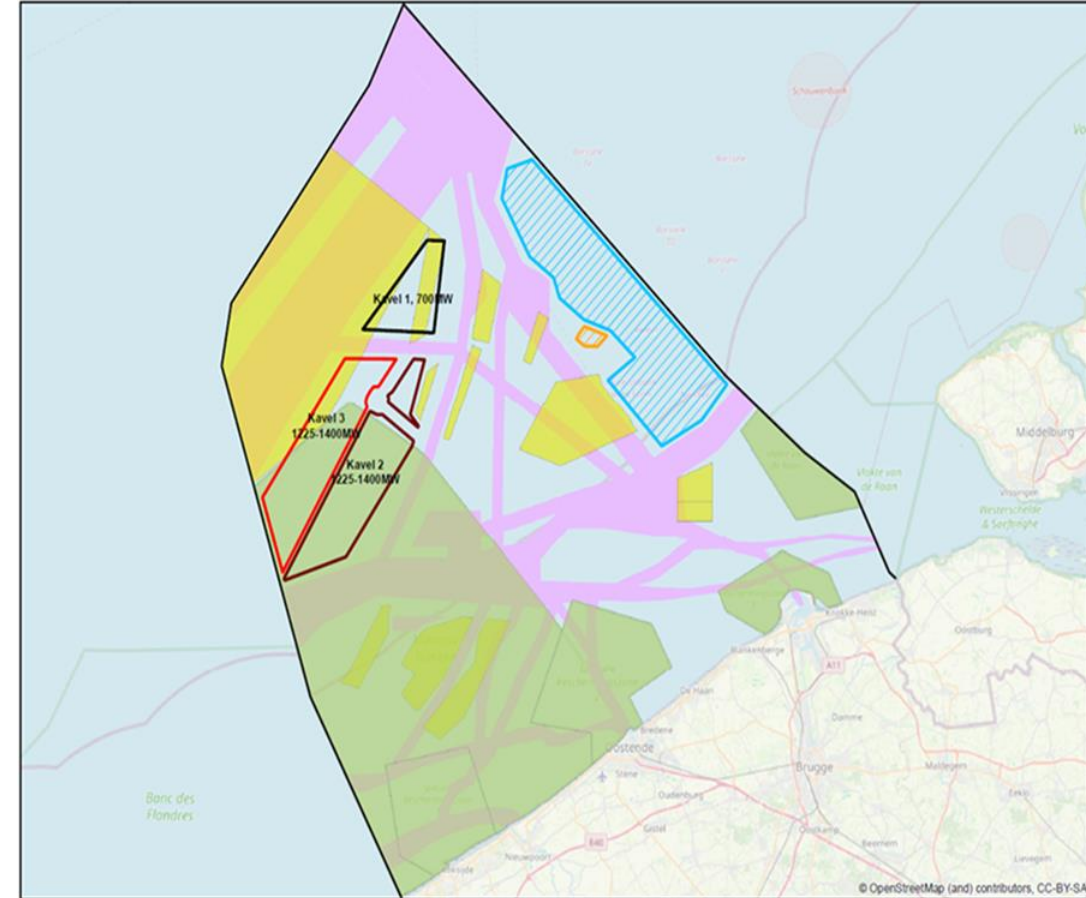
Lots within the PEZ

281 km² for the PEZ
(225 km² for the eastern zone)

Source:
https://www.health.belgium.be/sites/default/files/uploads/fields/fpshealt/e_file/bijlage_4_kaarten_mrp_2020.pdf



- Council of Ministers' decision of 15/10/2021: envisaged capacity for PEZ of 3,15 – 3,5 GW + connection through an energy island
- Council of Ministers' decision of 23/09/2022 on the lots: division into three lots with corresponding maximum installed capacity of
 - 1) 700 MW
 - 2) 1225 – 1400 MW
 - 3) 1225 – 1400 MW



Upcoming legal initiatives

Implementing measures of the law of 12 May 2019

- Ministerial Decrees
 - MD Lots (Council of Ministers' decision of 23/09/2022)
 - MD Grid Design (Council of Ministers' decision of 23/12/2021)
- Royal Decrees
 - RD Tender (Council of Ministers' decision of 28/04/2023)
 - RD MOG II
 - RD Liabilities
- State aid: articles 107 and 108 TFEU (if applicable CEEAG including requirement of consultation of 6 weeks)

1) Wind farm developer

- a) Permits transferred to the winners of the tenders
- b) Domain concession
- c) Offshore cable license (interarray cables)
- d) Environmental permit

2) Transmission system operator (Elia)

- a) Domain concession (island)
- b) Offshore cable license (liaison with the parks + landing cables)
- c) Environmental permit
- d) Transport permit (onshore cables)
- e) Regional permits

PEZ Studies

- Studies carried out by the DG Energy (FPS Economy) after data gap analysis
- Information provided about: (1) Soil, (2) Metocean, (3) Obstructions and (4) Environmental Impact Assessment
- 9 studies were identified

Desktop studies	Field studies
UXO desktop study	Geotechnical field study and Geophysical field study + Lab testing
Archeological desktop study	Metocean field studies
Geological desktop study	
Environmental Impact Assesment – EIA	
Metocean design conditions	
Seabed mobility study	
Wind resource assessment	

All studies will be finished and certified by Q2 – Q3 2024

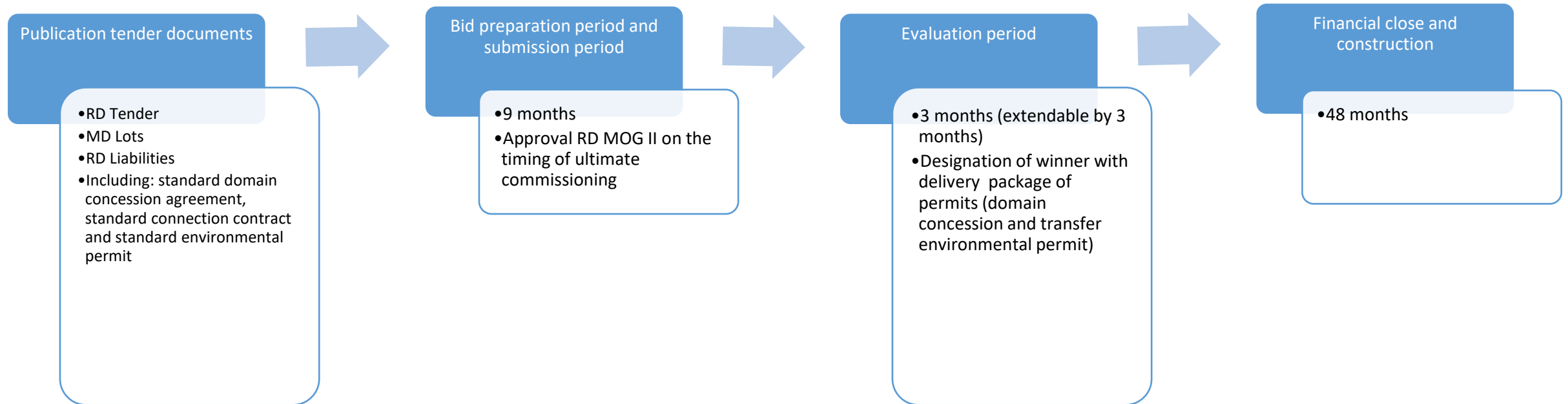


Digital database + reports on the website of the FPS Economy:
<https://offshore.digital-database.economie.fgov.be/#/home>



Technical workshops in 2024 / 2025

Tender process



Timing

- High level timing published on the website of the FPS Economy
- The timing is a reasonable estimate based on the normal timeframes for the different procedures

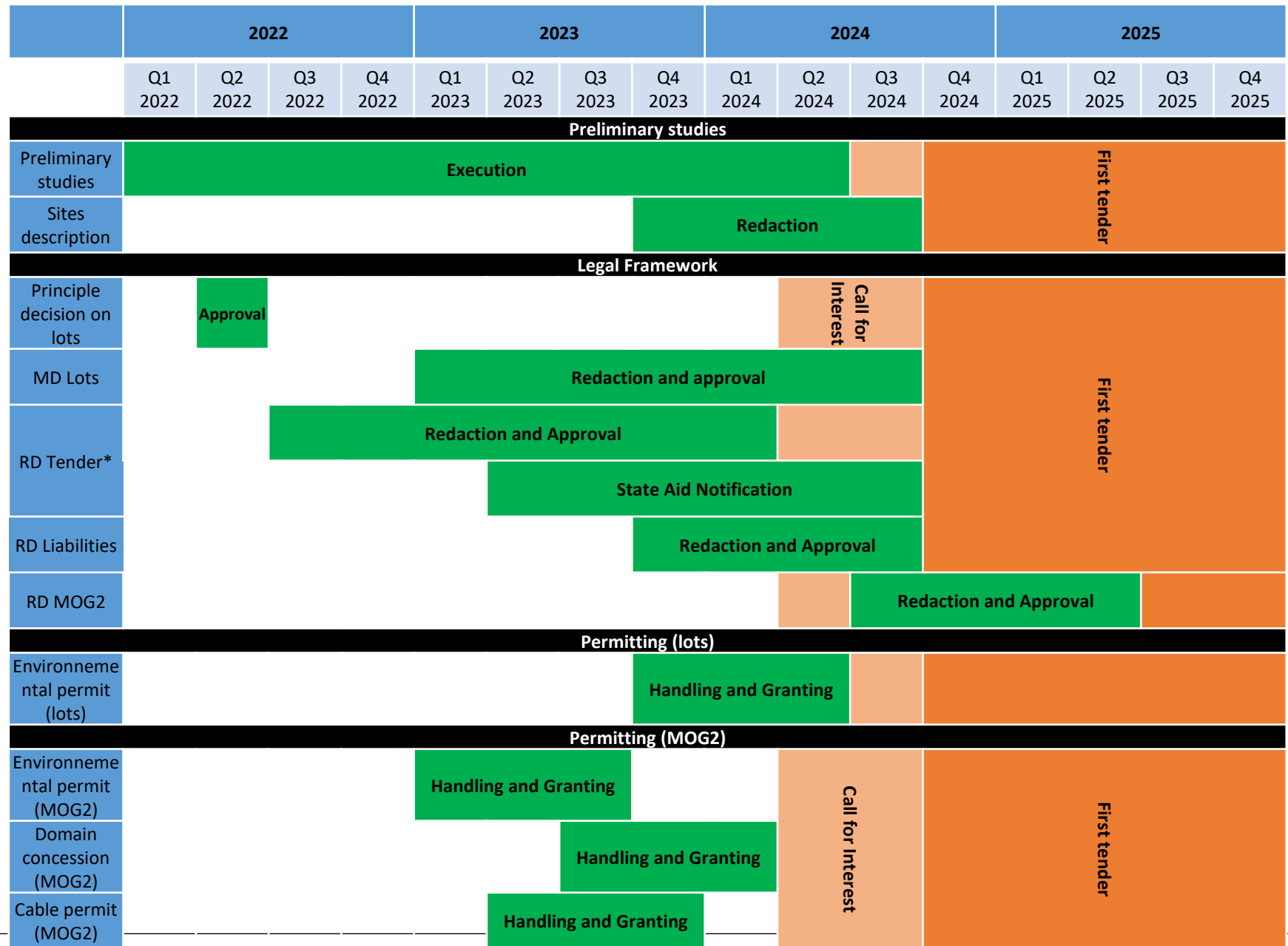
- Preliminary phase
 - Preliminary studies
 - Legal framework
 - Permitting

- Tender and construction phase
 - Link with onshore developments (Ventilus and Boucle du Hainaut)



Preliminary phase

Preliminary phase



* Without execution of SEA on the RD Tender

Tender and construction phase

- Onshore developments
 - Ventilus
 - Boucle du Hainaut
- Extension of Modular Offshore Grid (MOG II)
 - Island construction (Princess Elisabeth Island)
 - Construction of offshore electrical connection per phase
 - Phase 1 : 700 MW (AC)
 - Phase 2 : 1400 MW (AC)
 - Phase 3 : 1400 MW (HVDC)

Injection will only be possible when onshore projects are operational
(Ventilus for phase 1 and Boucle du Hainaut for phase 2 and 3)

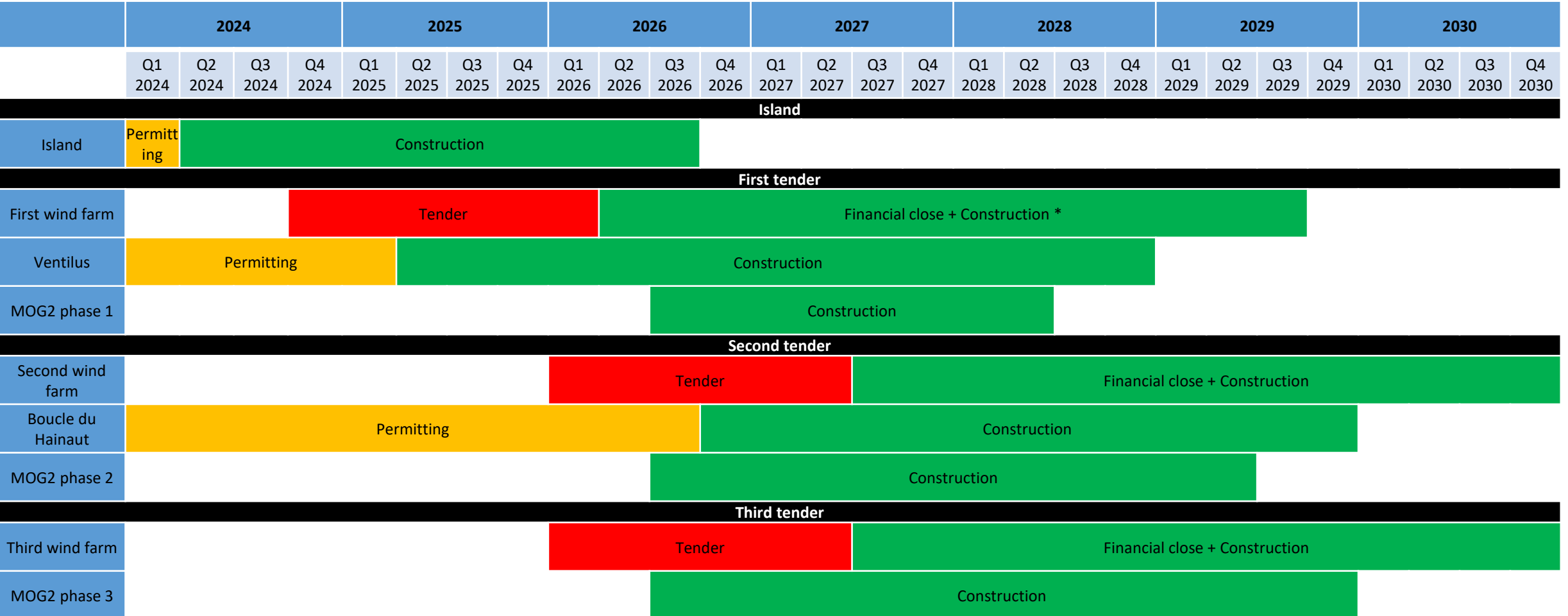
Any preparatory works before to be discussed

Tender and construction phase



- Wind farm connection per phase
 - Link with the onshore developments
 - Between 3.15 GW and 3.5 GW
 - 3 lots
 - **Phase 1** (link with construction Ventiluz)
 - **Lot 1 : max. 700 MW**
 - **Start tender in 2024**
 - **Phase 2** (link with construction Boucle du Hainaut)
 - **Lot 2 : max. 1400 MW**
 - **Lot 3 : max. 1400 MW**
 - **Start tender in 2026**

Tender and construction phase



This timing is a reasonable estimation based on the standard regional procedure for obtaining the integrated environmental permit, not taking into account any possible delay for unexpected circumstances, appeal procedures or a possible need for resubmission of the permit requests.

** End 2028 : first windturbines in service*

