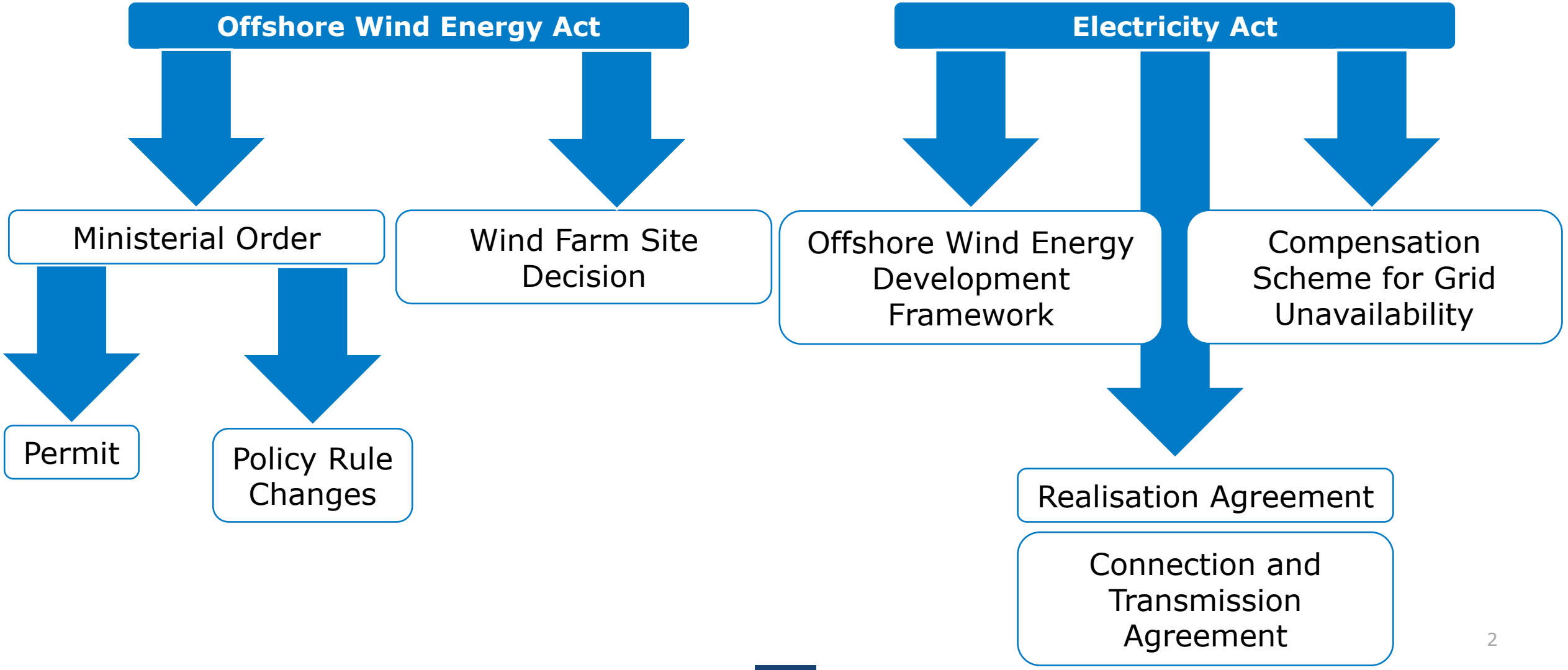
Rijksdienst voor Ondernemend Nederland

Webinar Ministerial Order Nederwiek Wind Farm Site I-A

10 June 2025

Host: Fréderique de Rooij

(Ministry of Climate Policy and Green Growth)


Offshore Wind Energy Act
Electricity Act
Ministerial Order
Wind Farm Site Decision
Offshore Wind Energy Development Framework
Compensation Scheme for Grid Unavailability
Permit
Policy Rule Changes
Realisation Agreement
Connection and Transmission Agreement

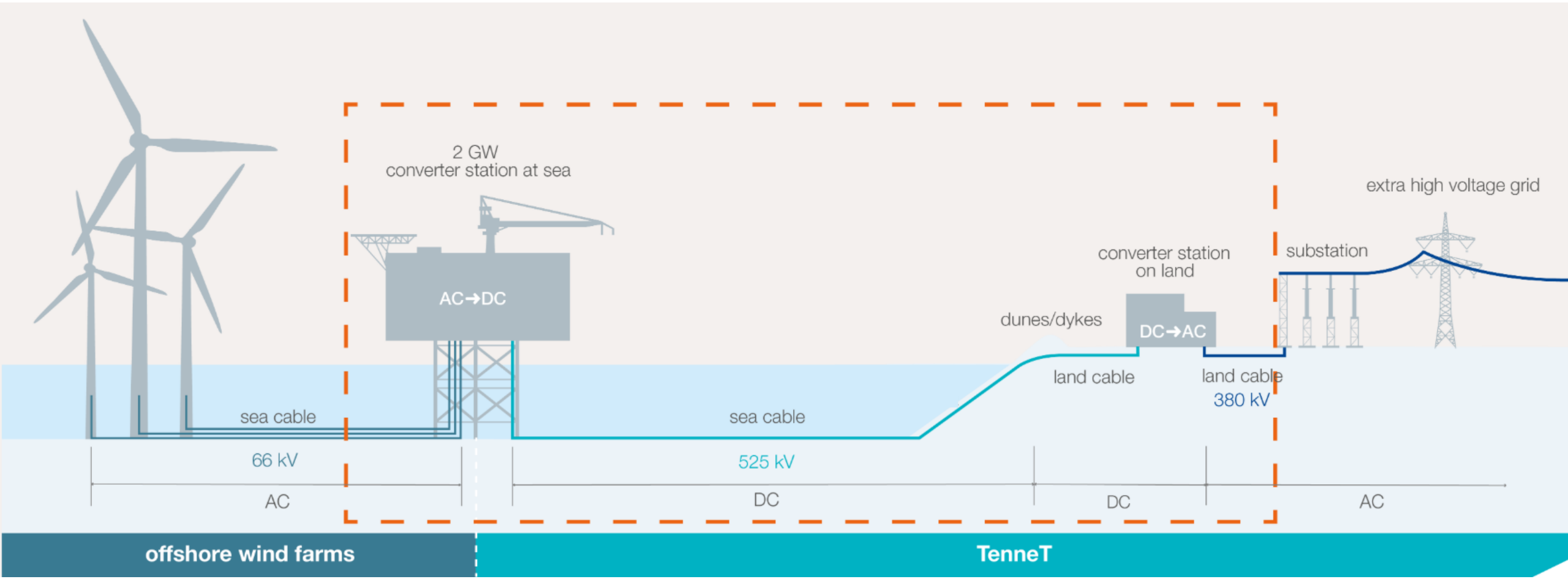
10 June 2025

Connection Nederwiek I-A

Erik van der Hoofd

Content

2 GW standard - overview



2 GW standard – background

- Following ...
  - the increase of the Dutch offshore wind targets decided by the parliament in 2022;
  - the ambitions of the North Sea countries to have a steady pipeline of projects in the North Sea; and
  - the tight market for HVDC equipment and offshore construction,

  … TenneT has, in close cooperation with market parties, developed the 2 GW standard for the construction of grid connection systems (“GCS”).

- This has resulted in framework agreements with several (combinations) of suppliers for following packages:
  - Converter stations offshore including HVDC
  - Civil contractors converter station on land
  - Transportation and Installation offshore
  - Cables

Grid Connection System Nederwiek I-A

Location land station: Sloegebied/Borsele

Contractors:

- Converter stations: Petrofac Hitachi
- Cabel: Prysmian
- Land station: DuraVermeer
- T&I: Heerema/Cosco

Status:

- Land station: preparation of construction site has started
- Topside: first steel cut took place in Johor Bahru (Malaysia)

General contractual framework

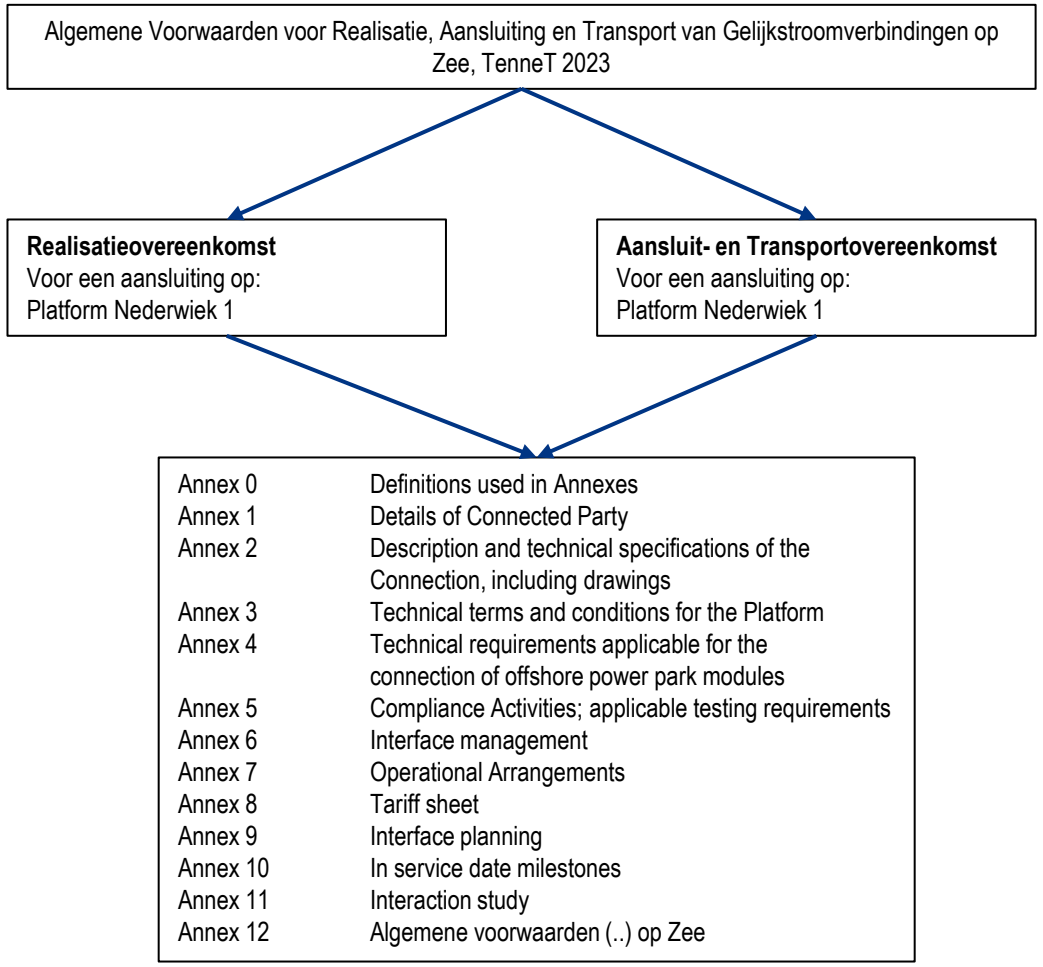
The contractual package:

- General Terms and Conditions
- Realisation Agreement
- Connection & Transmission Agreement
- Annexes

Updated model agreements REA / CTA for Nederwiek I-A will be published in June on TenneT website Offshore documents(tennet.eu)

Until opening date tender: questions can be sent to netopzee@tennet.eu

Directly after announcement of the winner of the wind tender, exchange on REA/CTA agreements will start, to allow finalization (signing) of the contractual package within 4 months.



Realization Agreement – Delivery procedure

Article 4. Testing and delivery of the Connection

- From the date on which the Platform is ready to receive the 66 kV cables from Connected Party ('Platform ready for electricalcable pull-in') as stipulated in the Development Framework, or at an earlier time if TenneT gives express written permission to Connected Party to do so, Connected Party shall be entitled to connect 66 kV cables to the Platform and to perform other work on the Platform. TenneT will not withhold the aforementioned permission on unreasonable grounds.

- Starting two (2) months before the scheduled start of the offshore work for the connection of 66 kV cables to the Connected Party's Platform, the Connected Party must inform TenneT on a weekly basis of all changes in the schedule of this offshore work that are necessary to make the wind farm ready for the delivery of full power and, starting at least two (2) weeks prior to the scheduled date, align on changes on a daily basis in order to ensure that a change is also workable for TenneT (e.g. taking into account personnel from both Parties who are available and the weather window).

- As the Connected Party is part of the integrated HVDC system. In order to enable the wind farm integration the Connected Party shall participate in the test & commissioning alignment process. The result of the alignments shall deliver an integrated commissioning schedule for the GCS including the offshore wind farm.

Realization Agreement – Interface OWF - TenneT

Article 6 Information exchange, planning, access and operational topics

- The parties shall jointly draw up a combined schedule prior to the conclusion of this Agreement, based on the respective schedules of TenneT and Connected Party. The agreed schedule will be added in Annex 9.

- During the term of this Realization Agreement: Parties keep each other mutually informed of the progress of the realization, both by means of bi-monthly reports or as often as the Parties agree.

- A Project Working Group (or "PWG") shall be installed which shall meet regularly to discuss operational issues and planning.

- The parties mutually recognize their interest in ensuring that all issues affecting the successful, efficient and timely execution of both projects (during construction, regular operations and decommissioning) are discussed, coordinated and worked out within the PWG.

Furthermore, the interface management process between the Connected Party and TenneT is laid down in a dedicated annex 6. The annex specifies high level interfaces in the form of RACI tables.

Update agreement Nederwiek I-A
Background

Background of updates relative to latest published version (November 2024):

- Developing insight from putting the 2 GW model agreement into practice in the previous tender round.
- Following the decision to have a first round for 1 GW offshore windfarm (“OWF”) connecting to the Nederwiek 1 platform (instead of a 2 GW OWF) the contractual package has been modified to reflect the constellation with ultimately multiple OWFs.

Update agreement Nederwiek I-A
Specifics: J-tubes and additional GIS bays

In line with the Development Framework (Ontwikkelkader wind op zee) 3.8.2 the number of 14 J-tubes and 12 GIS bays will be standardly available to the developer. Furthermore, the developer of Nederwiek 1-A is entitled to request up to two additional GIS bays. Terms are as follows:

- Acceptance of the additional costs to be compensated to TenneT
- Interest formally expressed to TenneT within 4 months after official notification that the developer was the selected bidder in the tender procedure of Nederwiek I-A
- Cable routes from J-tube (plug in connector) to GIS cannot be freely chosen. However, TenneT will take reasonable requests of the developer into account when timely provided.

Update agreement Nederwiek I-A
Specifics: Interaction Study

The requirements regarding interaction study as intended in Article 6.17 and 6.27 of the 'Netcode elektriciteit' shall apply mutatis mutandis for DC Connected Power Park Module in upcoming changes to the Netcode.

The study is aimed at investigating interactions between the control systems of power electronics-interfaced systems (Windfarm, HVDC etc) and with physical resonances in the offshore grid. Requirements for this study are detailed out in a new annex (Annex ‘Interaction study’).

The developer of the OWF Niederwiek I-A has to take into account the situation that another OWF will be connected to the Platform at some point later in time. This entails that information exchange related to the Interaction study is required, and that specific, relevant data needs to be shared between the OWF developers.

Update agreement Nederwiek I-A
Specifics: Redundant Data Link

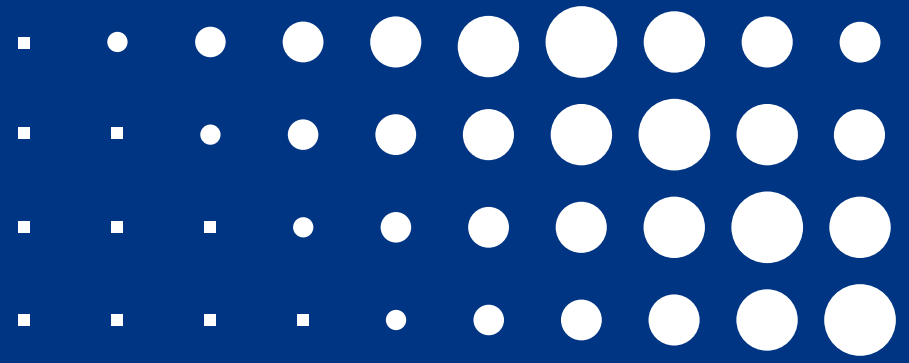
- TenneT will provide a fibre optic interlink (the Redundant Fibre Optic Data Link) between the platforms Nederwiek I and IJmuiden Ver Gamma to create a redundant fibre path.

- On this Redundant Fibre Optic Data Link, a maximum of 56 dark fibre cores (28 duplex) are available for the Connected Parties, divided equally between two Connected Parties.
  28 dark fibre cores (14 duplex) are available per Connected Party.

- Connected Party needs to consider that the back-up path will be terminated on the outside of the IJmuiden Ver Gamma HVDC Onshore Substation fence in a handhole.

- As the Redundant Fibre Optic Data Link between the two neighboring HVDC Platforms can only be installed and put into operation after the installation of both Platforms, and the connection and commissioning of the windfarm has priority over the realization of the redundant datalink, it is uncertain – and TenneT can not guarantee – that this Redundant Fibre Optic Data Link will be operational before the windfarm is fully operational.

Disclaimer



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Rijksdienst voor Ondernemend Nederland

Webinar Ministerial Order Nederwiek Wind Farm Site I-A

10 June 2025

Geert Harm Boerhave

(Netherlands Enterprise Agency)

Overview: Dutch offshore wind market framework

- Offshore Wind Energy Act
- Wind Farm Site Decision
- Ministerial Order for a specific site permit tender
- Tender applications by developers
- Evaluation by RVO
- Tender winner receives a permit
- Policy rule for changes to a project and requests to revoke a permit

Wind Farm Site Decision

- Published 16 May 2025 in the Government Gazette
- 13 responses to the draft Site Decision
- Changes made to the draft Site Decision
  - Adjusted coordinates
  - Minimum 1,000 MW and maximum 1,150 MW
  - Only monopile foundations allowed
  - Minimum distance of 150 metres from closed boreholes
- Appeal period of 6 weeks (to 27 June 2025)

Ministerial Order: preferred tender procedure

- Offshore Wind Energy Act allows choice of tender procedures
- Procedure of a comparative assessment with financial bid chosen
- Ministerial Order for Nederwiek Site I-A

Evaluation by RVO

- Check against Wind Farm Site Decision regulations
- Check against Offshore Wind Energy Act requirements
- Check against Ministerial Order requirements
- Comparative assessment of criteria

Comparative assessment criteria

- Financial Bid (Table 1)
- Certainty of realisation (Table 2)
- Energy production (Table 3)
- International Responsible Business Conduct (IRBC) (Table 4)
- Circularity (Table 5)
- Ecology (Table 6)

Key differences to IJmuiden Ver tenders

- Payment of financial offer bid starts in 2031
- Can return permit within 2 years after permit becomes irrevocable by paying full bank guarantee
- Contribution to sufficient internships

Key differences to IJmuiden Ver tenders

- Tender applications will be done online
- Just one site (NW I-A) will be issued to tender
- Legal entities and companies in a group or group company will be regarded as a single applicant
- More time for TenneT milestones
- Capital commitment introduced

TenneT Milestones

- Milestone 1: Tennet platform ready for electrical cable pull-in
  - 31 March 2030
- Milestone 2: Wind farm ready to supply full power
  - 31 December 2030
- Milestone 3: Delivery of HVDC connection
  - 31 March 2031

Tender application

- Application period runs from 16 October (00:00 CEST) to 30 October (17:00 CET) 2025
- Just one application per applicant
- Application must be done online via eLoket

Application can only be done online

- eLoket (‘Electronic Counter’)
  - Online portal where applications can be managed securely
  - eHerkenning needed to submit application

- eHerkenning (‘Electronic Recognition’)
  - Means of identification for Dutch businesses
  - Level 3 (EH3) assurance required
  - Getting the right level of assurance may take a few weeks -> register on time
  - Register at https://www.eherkenning.nl/en

Application form

- A draft application form will be published online to help you prepare your application (not to be used for actual application)
- Applications can only be submitted during the application period
- Appendices must also be submitted through eLoket (max. size 40 MB per appendix)

Costs and bank guarantee

- €0 for application
- €18,352,510 in costs for site studies and EIA
- €100 million guarantee or deposit
  - By bank or insurance company
- The tender winner must deliver these within 4 weeks of the permit award

When is the bank guarantee collected?

- €10 million will be collected for every month Milestone 2 is missed

- The Minister can approve a request for the permit to be revoked and the €100 million guarantee to be collected if:
  - The request for permit revocation is made within 2 years of when the permit became irrevocable; and
  - The permit holder has shown it is impossible to execute the project in line within the terms of the permit for technical, financial or economical reasons.

The bank guarantee and permit holder obligations

- Safeguard to ensure the wind farm is built on time
- Unless the permit is revoked, the obligation to build the wind farm remains even if the full bank guarantee is collected
- A penalty charge can still be levied on the permit holder

Financial bid

- Annual amount
- First payment due in 2031
- Subsequent payments due 31 March every year

Certainty of realisation

- Experience of the developer and its supply chain
- Financial strength of developer
- Contribution to internships in the wind sector

Energy production of the wind farm

- Maximum score for 4.35 TWh
- Independent wind report
- No external wakes, just internal wakes
- Availability of the wind farm 96%
- No wind farm blockage, no wind hysteresis, availability of TenneT’s substation platform and export cable is 100%

IRBC Agreement for the Renewable Energy Sector

- Integration of IRBC Agreement in policy and management systems
- Identification of supply chain risks to human rights and the environment
- Prevent negative impact
- Evaluate and monitor due dilligence
- Annual report on due dilligence
- Having a complaint mechanism

IRBC Agreement - Scoring

- Sign up to the Dutch IRBC Renewable Energy Agreement
- Join a similar multi-stakeholder agreement that is based on OECD Directives
- A company can have its own system, but where this is only the case, just 50% of the maximum score can be achieved.

When to sign-up to the IRBC Agreement

- Before submitting the permit application:
  - The applicant
  - The wind turbine manufacturer(s)
  - The wind turbine installer(s)
  - The parties responsible for operation and maintenance

When to sign-up to the IRBC Agreement

- 12 months after permit becomes irrevocable:
  - The foundation manufacturer(s)
  - The foundation installer(s)
  - The wind farm cable manufacturer(s)
  - The wind farm cable installer(s)

Which party must sign-up to the IRBC Agreement?

Example:

Company A and Company B have a SPV joint venture called Nederwiek CV.

- In this case, both Company A and Company B must sign-up to the IRBC Agreement.
- It is not necessary for Nederwiek CV to join.

Circularity

- Focus on transparency and recyclability of rotor blades

- Applications must provide information on the following:
  - Circular design of the wind farm:
    - Circular strategies
    - Optimisation of shipping (construction and operation phases)
  - Rotor blades:
    - Use of reversible polymers
    - Recyclability of rotor blades

Circularity

- 18 months after the permit is irrevocable, the permit holder must:
  - Disclose information about life cycle analysis
  - Disclose information about knowledge sharing

- 12 months before the permit expires, the permit holder must have:
  - An end-of-life plan for wind farm components

Policy rule on project changes

- Published in the Government Gazette
- Changes to the project are possible only if the project is still feasible, the score for the assessment criteria remains the same (or is better) and the timelines can still be met.
- Possibility for request to revoke a permit

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Ministerial Order for granting the permit Nederwiek I-A (Ecology)

10 June 2025

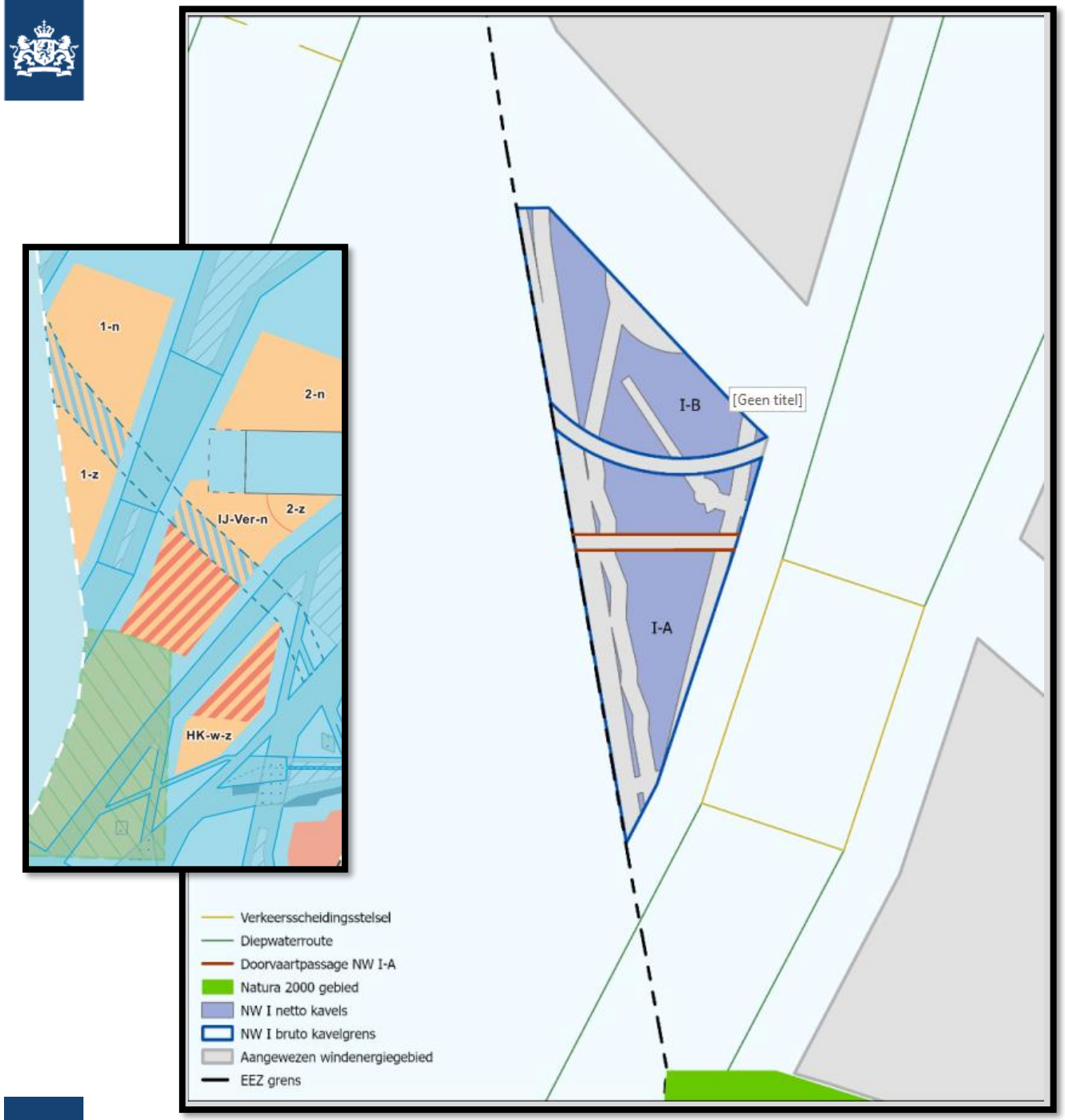
Bas van der Veen

(Netherlands Enterprise Agency)

- *Location NW I-A*
- *Objectives*
- Detailed look at criteria

Location specific features NW I-A

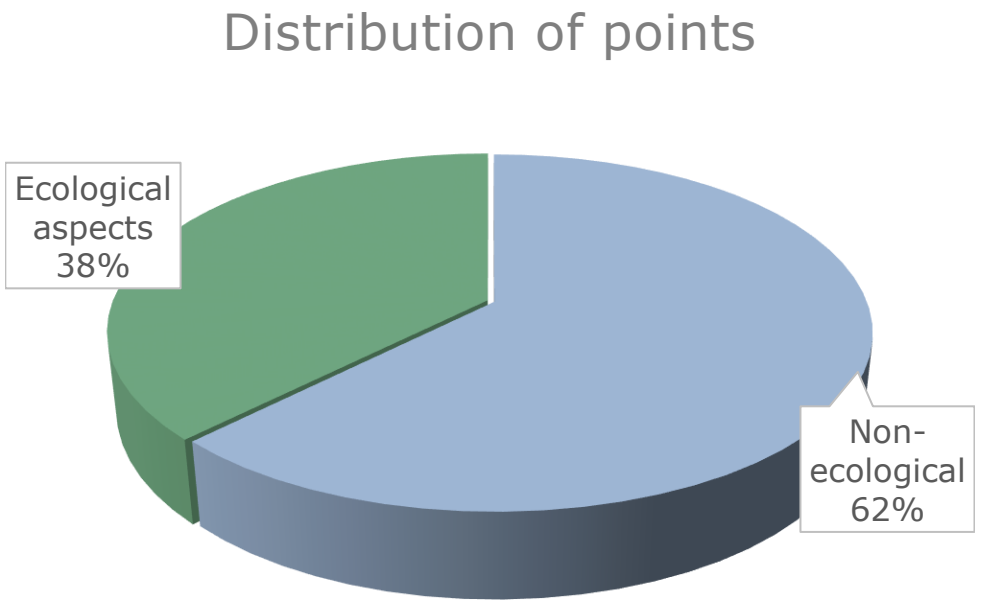
- Relatively close to the Brown Bank area, designated for bird species
- Promising for reef-building species (e.g. sabellaria), also found in the Brown Bank area
- Next to UK wind farms



Objectives

- Reduce negative ecological effects
  - Locally occurring birds
  - Marine mammals
- Researching, protecting and enhancing
  - Reefs and benthic habitats
  - Underwater nature
  - Naturally occurring diversity of benthos

- **Focus:** implementing measures and gaining insight into effectiveness



Changes compared to November 2024 Draft Ministerial Order

- ADLS removed
  - Not possible because of neighbouring UK air space regulations
- Financial contribution for ecological research removed
- Added measure on biomass development on foundation (2.4)

Scoring

- Qualitative assessment for ecological criteria (except 1.2 and 1.4), based on this scale in 2 parts:
  - Quality of measure
  - Research/monitoring & reporting plan

- Independent expert committee

Quality of the application	Percentage of maximum points
Excellent, with (some) additional added value The information provided exceeds expectations, all components are described in sufficient detail and add value beyond expectations	100%
Good The information provided is in line with expectations, all components have been named and described in sufficient detail	80%
Sufficient The information provided is in line with expectations and all components have been named	60%
Insufficient The information was not fully in line with expectations and/or certain components were not fully disclosed	20%
Very insufficient The information is incomplete and does not meet the request	0%
No result The component cannot be assessed due to the lack of information	0%

1.1 Reduce bird collision casualties

- **Measure:** Development & application of effective shutdown on demand/local curtailment
- Contribution to identification of location-specific target species such as gannets
- Explain:
  - Location and number of turbines
  - Identification technique
  - How to operationalise local curtailment
  - In later stage: Coordination with MIVSP for effective and complementary sensor application

1.2 Reduce harbour porpoise disturbance days during foundation installation

- Implementing noise mitigation measures during installation
- Calculation tested by independent organisation which has expertise in the field of underwater noise and harbour porpoise disturbance days
- Separate Appendix 14
- Points:
  - 26 points for 33,000 harbour porpoise disturbance days
  - ‘Overplanting factor’ to accommodate overplanting:

$$\text{Overplanting factor} = \frac{\text{number of turbines} * \text{capacity per wind turbine}}{1000\ \text{MW}}$$

Additional harbour porpoise criteria

1.3 Contribute to demonstration of innovative techniques

- **Measure:** Implementation of innovative pile driving techniques on four turbines
- Same foundations as in rest of the wind farm
- Description of realistic development path
- Report within 6 months of completing construction

1.4 Reduce pressure factors in operational phase

- **Measure:** Optimising logistical planning to minimise underwater noise
- Relate to marine mammal presence
- Scoring: 4 points when measure is applied

Underwater nature

2.1 Avoiding damage to biogenic reefs and benthic habitats

- Drafting a damage prevention plan for existing reefs and habitats during construction
- Using studies and site surveys
- Targets reef-building species and bivalves (oysters, mussels)

2.2 Strenghtening underwater nature by nature-inclusive design (NID)

- Application of NID on 95% of turbines, and optionally cable crossings
- Targets cod and related biodiversity
- Location-specific characteristics taken into account
- Multi-year monitoring, public reporting and data sharing

Underwater nature

2.3 Researching the impact of the wind farm on benthic biodiversity

- Targets reef-building species, bivalves, sand eel and other relevant species
- Contributes to knowledge base on species presence in wind farms
- Multi-year monitoring, public reporting and data sharing

2.4 Investigating biomass development on foundation and tower

- Research on 8 representative turbine positions
- Taking samples at various heights
- Method of determining species/taxa explained
- Gaining insights in the growth of benthos species

Towards an ecologically sound wind farm

- Limiting impact on birds and harbour porpoises
- Driving innovation and research
- Supporting positive ecological impact

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Thank you for your participation

- We invite you to fill in the questionnaire
- The webinar recording, presentation and Q&A will be made available on our website offshorewind.rvo.nl
- Questions and remarks can be sent to: **woz@rvo.nl**

3 July: The Offshore Wind Energy in the Netherlands Workshop

Registration -> offshorewind.rvo.nl