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Status Final

## **Geophysical Survey Nederwiek Wind Farm Zone, 3D-UHRS Survey Campaign**

### **Nederwiek Wind Farm Zone**

### **Annex 6, section VII Starting Points and Assumptions**

### **Nederwiek Wind Farm Zone**

## Colophon

|                |                                                                      |
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# 1 Introduction

This document provides the starting points and assumptions for the Nederwiek Wind Farm Zone, Nederwiek noord and Nederwiek zuid.

The starting points and assumptions are to be used by contractors when executing investigations, studies or likewise, for the development of the Nederwiek Wind Farm Zone and commissioned by one of the following organisations:

- The Ministry of Economic Affairs and Climate Policy
- The Ministry of Infrastructure and Water Management
- Netherlands Enterprise Agency (RVO)
- Rijkswaterstaat
- TenneT TSO B.V.

This document is part of the QA/QC process for these studies.

Please note:

- This is a living document; before use check if you have the latest version available (to be confirmed by your client)

If you have any queries please contact your CLIENT.

## 2 General introduction to the offshore wind energy in the Netherlands

### 2.1 Existing offshore wind farms

The Netherlands' existing offshore wind farms have a combined capacity of approximately 3,000 MW, of which 2,000 MW is fully operational.

*Table 1 Wind Farms in the Dutch North Sea (operational or under construction)*

| Windfarm                                        | Sites    | Distance of the coast | Year of commissioning | Turbines          | Owner                                          |
|-------------------------------------------------|----------|-----------------------|-----------------------|-------------------|------------------------------------------------|
| <b>Offshore Wind Farm Egmond aan Zee (OWEZ)</b> |          | 10-18 km              | 2008                  | 36 Vestas 3 MW    | Noordzeewind (joint venture NUON and Shell)    |
| <b>Prinses Amalia Wind Farm</b>                 |          | 23 km (12 NM)         | 2009                  | 60 Vestas 2 MW    | Eneco                                          |
| <b>Luchterduinen</b>                            |          | 23 km (12 NM)         | 2015                  | 43 Vestas 3 MW    | joint venture Eneco and Mitsubishi Corporation |
| <b>Gemini</b>                                   |          | 85 km                 | 2017                  | 150 Siemens 4 MW  | Northland Power, Siemens, Van Oord and HVC     |
| <b>Borssele</b>                                 | I - II   | 22 km                 | 2020                  | 94 Siemens 8 MW   | Ørsted                                         |
|                                                 | III - IV |                       | 2020                  | 77 Vestas 9,5 MW  | Blauwwind                                      |
|                                                 | V        |                       | 2021                  | 2 Vestas 9,5 MW   | Two Towers                                     |
| <b>Hollandse Kust (zuid)</b>                    | I - IV   | 18 km                 | Under Construction    | 140 Siemens 11 MW | Vattenfall                                     |
| <b>Hollandse Kust (noord)</b>                   | V        | 18,5 km               | In Preparation        | 69 11 MW          | Crosswind                                      |

### 2.2 The roadmap 2030 & 2030+ towards 21 GW offshore wind power

As part of its climate goals, the Dutch Government aimed to have 49 TWh/a of offshore wind energy feeding into the grid by 2030. This equals around 40% of the current Dutch electricity consumption. The roadmap to achieve this goal sets out a schedule of tenders, with each tender offering 700 MW up to 2,000 MW of development in the period 2015 – 2025. Last year the Dutch Government has raised the goal to have 55 TWh/a of offshore wind energy feeding into the grid by 2030 under the same roadmap and legislation. The Dutch government has create the offshore wind roadmaps 2030 and 2030+ to set out a schedule of tenders for wind farm permits (see figure 1 and 2).

The wind farms will be built in designated Wind Farm Zones. Wind farms outside these Wind Farm Zones are prohibited. Within the designated Wind Farm Zones, the government defines the specific sites where wind farms can be constructed using a so-called Wind Farm Site Decision ('Kavelbesluit'). This Wind Farm Site Decision contains all conditions for building and operating a wind farm on that specific site.

Developers can apply in tenders for the permits to build and operate a wind farm according to a Wind Farm Site Decision. Winners of these permit tenders will be granted a permit and a grid connection to the main land.

The Dutch Government provides comprehensive site data and Dutch transmission system operator TenneT is responsible for grid connection. RVO is responsible for the site data, which can be used for the preparation of bids for these tenders.

*Table 2 Wind Farm Zones in the Dutch North Sea*

| <b>Wind Farm Zones in the Dutch North Sea</b> |                       |               |                 |                                                                       |
|-----------------------------------------------|-----------------------|---------------|-----------------|-----------------------------------------------------------------------|
| <b>Wind Farm Zone</b>                         | <b>Wind Farm Site</b> | <b>Tender</b> | <b>Capacity</b> | <b>Owner</b>                                                          |
| <b>Borssele</b>                               | I and II              | 2015          | 752 MW          | Ørsted Borssele 1 B.V.                                                |
|                                               | III and IV            | 2016          | 731 MW          | Blauwwind II C.V. (Shell, Van Oord, Eneco, Diamond Generating Europe) |
|                                               | V                     | 2016          | 19 MW           | Two Towers                                                            |
| <b>Hollandse Kust (zuid)</b>                  | I and II              | 2017          | 740 MW          | Chinook (Vattenfall)                                                  |
| <b>Hollandse Kust (zuid)</b>                  | III and IV            | 2018          | 760 MW          | Vattenfall                                                            |
| <b>Hollandse Kust (noord)</b>                 | V                     | 2019          | 759MW           | Crosswind                                                             |
| <b>Hollandse Kust (west)</b>                  | VI and VII            | 2022          | 2 x ≥700 MW     | t.b.d.                                                                |
| <b>IJmuiden Ver</b>                           | I and II              | Q4 2023       | ≥ 2 x 1,000 MW  | t.b.d.                                                                |
|                                               | III and IV            | Q4 2023       | ≥ 2 x 1,000 MW  | t.b.d.                                                                |
|                                               | V and VI              | Q2 2025       | ≥ 2 x 1,000 MW  | t.b.d.                                                                |
| <b>Nederwiek</b>                              | I                     | Q2 2025       | ≥2,000 MW       | t.b.d.                                                                |
|                                               | II                    | 2026          | ≥2,000 MW       | t.b.d.                                                                |
|                                               | III                   | 2026          | ≥2,000 MW       | t.b.d.                                                                |
| <b>Hollandse Kust (west)</b>                  | VIII                  | 2026/2027     | ≥700 MW         | t.b.d.                                                                |
| <b>Ten Noorden van de Waddeneilanden</b>      | I                     | 2026/2027     | ≥700 MW         | t.b.d.                                                                |
| <b>Doordewind</b>                             | I                     | 2027          | ≥2,000 MW       | t.b.d.                                                                |
|                                               | II                    | 2027          | ≥2,000 MW       | t.b.d.                                                                |

An overview for the Roadmap 2030 is provided in Figure 1.

In the beginning of 2022 the Dutch Government announced three new Wind Farm Zones called Lagelander, Nederwiek (Nederwiek zuid site I and Nederwiek noord site II and III) and Doordewind (Figure 2). The development of the southern part (HKWWFS VIII) of the Hollandse Kust (west) Wind Farm Zone and the IJmuiden Ver Wind Farm Sites V-VI in the IJmuiden Ver Wind Farm Zone was also confirmed. Together this is expected to be sufficient for an additional 10,7 GW.

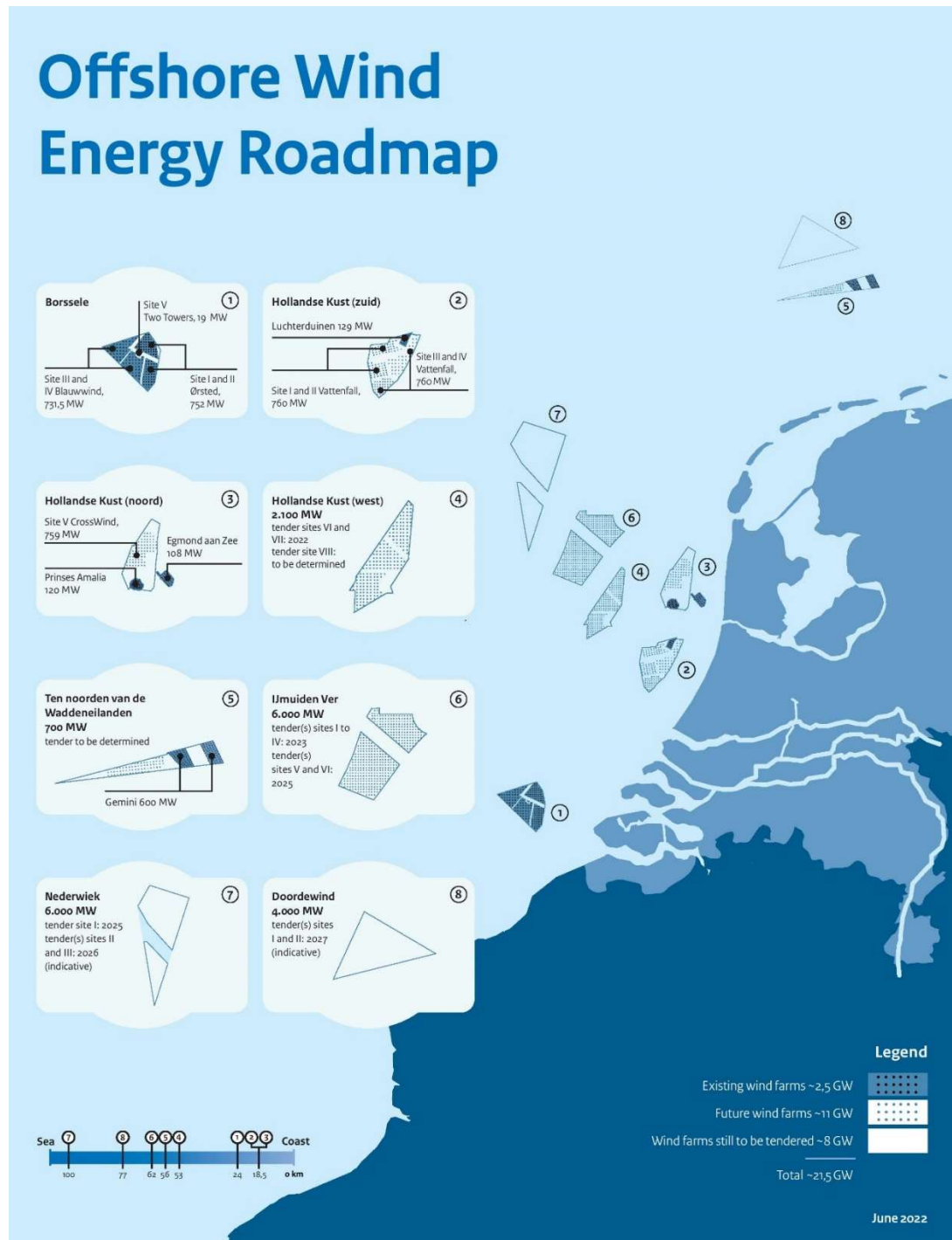


Figure 1 Dutch Offshore Wind Farm Zones overview for road map 2030



Figure 2 Newly announced Dutch Offshore Wind Farm Zones (Roadmap 2030+)

### 3 General introduction Nederwiek WFZ

#### 3.1 Layout & coordinates

The Nederwiek Wind Farm Zone (NWWFZ) is located approximately 100 kilometres off the west coast of the Netherlands. General characteristics of the NW WFZ are shown in Table 3. Table 4 to 5 show the coordinates of the Nederwiek Wind Farm Zone.

The NWWFZ is planned to contain a total capacity of 6,000 MW divided over 3 sites of 2,000 MW each. The wind farm permit tender is divided in two phases, scheduled to be granted between 2025 and 2026. Nederwiek Wind Farm Site I (Nederwiek zuid) is planned to be the first phase within the Wind Farm Zone and is an addition to the roadmap 2030+.

Table 3 Characteristics of the Nederwiek Wind Farm Zone (noord and zuid)

| Characteristics           |                                   |
|---------------------------|-----------------------------------|
| Water depth               | Approximately 24,5-34,0 mLAT      |
| Distance from shore       | Approximately 100 km              |
| Total Wind Farm Zone area | Approximately 947 km <sup>2</sup> |

Table 5 Coordinates of the Nederwiek Wind Farm Zone zuid

| Nederwiek Wind Farm Zone zuid coordinates |          |           |
|-------------------------------------------|----------|-----------|
| Point No.                                 | Easting  | Northing  |
| WFZ_01                                    | 511262.1 | 5861912.4 |
| WFZ_02                                    | 504988.9 | 5898196.1 |
| WFZ_03                                    | 504551.9 | 5900695.3 |
| WFZ_04                                    | 506513.0 | 5900728.8 |
| WFZ_05                                    | 518517.0 | 5887991.9 |
| WFZ_06                                    | 519911.7 | 5886660.6 |
| WFZ_07                                    | 518524.1 | 5881971.5 |
| WFZ_08                                    | 517977.8 | 5880125.3 |
| WFZ_09                                    | 513135.7 | 5865490.3 |
| Coordinate system: ETRS_1989_UTM_Zone_31N |          |           |
| WKID: 25831 Authority: EPSG               |          |           |

Table 4 Coordinates of the Nederwiek Wind Farm Zone noord

| Nederwiek Wind Farm Zone noord coordinates |          |           |
|--------------------------------------------|----------|-----------|
| Point No.                                  | Easting  | Northing  |
| WFZ_10                                     | 522313.6 | 5894778.0 |
| WFZ_11                                     | 520808.6 | 5896425.1 |
| WFZ_12                                     | 507039.2 | 5911494.3 |
| WFZ_13                                     | 501892.9 | 5921837.6 |
| WFZ_14                                     | 503352.4 | 5925523.5 |
| WFZ_15                                     | 504405.7 | 5927462.4 |
| WFZ_16                                     | 508337.1 | 5934699.5 |
| WFZ_17                                     | 531529.6 | 5927141.8 |
| WFZ_18                                     | 531897.7 | 5927021.8 |
| Coordinate system: ETRS_1989_UTM_Zone_31N  |          |           |
| WKID: 25831 Authority: EPSG                |          |           |

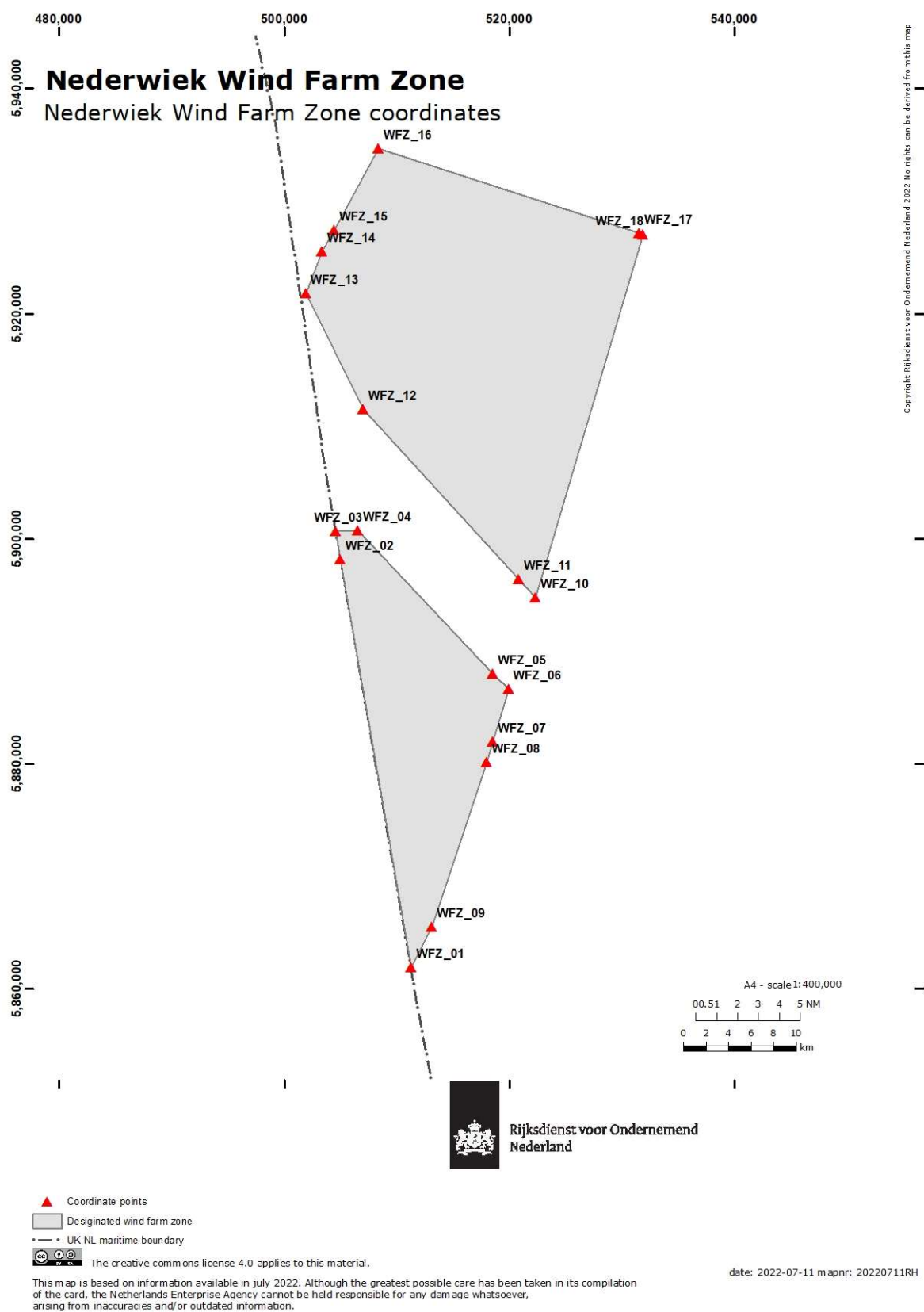


Figure 3 Map of the Nederwiek Wind Farm Zone

### 3.2 Cables and pipelines within the Wind Farm Zone

Several operational and abandoned cables and pipelines cross the Wind Farm Zone, as shown in **Fout! Verwijzingsbron niet gevonden.** and Figure 3.

*Table 5 Characteristics of cables and pipelines in the Nederwiek Wind Farm Zone*

| Cables and pipelines |                           |                                 |               |      |           |
|----------------------|---------------------------|---------------------------------|---------------|------|-----------|
| Name                 | Operator                  | Trace                           | Diameter [in] | Type | Status    |
| <b>PL0187_PR</b>     | Equinor ASA               | Draupner (N) to Duinkerken (F)  | 42            | Pipe | Active    |
| <b>PL0186_PR</b>     | Equinor ASA               | Sleipner (N) to Zeebrugge (B)   | 40            | Pipe | Active    |
| <b>PL0176_PR</b>     | BBL Company V.O.F.        | Bagzand (NL) to Bacton (GB)     | 36            | Pipe | Active    |
| <b>PL0004_PR</b>     | Wintershall Noordzee B.V. | K13-AP                          | 36            | Pipe | Active    |
| <b>PL0098_PR</b>     | Wintershall Noordzee B.V. | -                               | 24            | Pipe | Active    |
| <b>PL0018_PR</b>     | Wintershall Noordzee B.V. | -                               | 20            | Pipe | Abandoned |
| <b>PL0019_PR</b>     | Wintershall Noordzee B.V. | Sidetap K13C#2 to K13-AP/K13-AW | 20            | Pipe | Abandoned |
| <b>PL0017_PR</b>     | Wintershall Noordzee B.V. | K13-D to K13-C                  | 10            | Pipe | Abandoned |
| <b>PL0017_HS</b>     | Wintershall Noordzee B.V. | K13-D to K13-C                  | 2             | Pipe | Abandoned |
| <b>PL0028_PR</b>     | Wintershall Noordzee B.V. | K10-B to K13-C                  | 20            | Pipe | Abandoned |
| <b>PL0072_PR</b>     | Wintershall Noordzee B.V. | K13-CP/K13-CW to Sidetap K13-C  | 20            | Pipe | Active    |
| <b>PL0027_HS</b>     | Wintershall Noordzee B.V. | K10-C to K10-B                  | 2             | Pipe | Abandoned |
| <b>PL0027_PR</b>     | Wintershall Noordzee B.V. | K10-C to K10-B                  | 10            | Pipe | Abandoned |
| <b>PL0110_HS</b>     | Wintershall Noordzee B.V. | K10-V to K10-C                  | 2             | Pipe | Abandoned |
| <b>PL0110_PR</b>     | Wintershall Noordzee B.V. | K10-V to K10-C                  | 10            | Pipe | Abandoned |
| <b>PL0111_PR</b>     | Wintershall Noordzee B.V. | K10-V to J6-A/K13-A             | 10            | Pipe | Active    |
| <b>PL0111_HS</b>     | Wintershall Noordzee B.V. | K10-V to J6-A/K13-A             | 2             | Pipe | Active    |
| <b>PL0007_PR</b>     | NAM B.V.                  | -                               | 24            | Pipe | Active    |
| <b>PL0137_PR</b>     | NAM B.V.                  | K8-FA-1AP/K8-FA-1P to K14-FA-1C | 24            | Pipe | Active    |
| <b>PL0014_PR</b>     | NAM B.V.                  | K11-FA-1 to K8-FA-1             | 6.6           | Pipe | Abandoned |
| <b>PL0076_PR</b>     | NAM B.V.                  | K8-FA-2 to K8-FA-1              | 10            | Pipe | Active    |

|                             |                                           |                     |     |       |           |
|-----------------------------|-------------------------------------------|---------------------|-----|-------|-----------|
| <b>PL0015_PR</b>            | NAM B.V.                                  | K8-FA-2 to K8-FA-1  | 11  | Pipe  | Active    |
| <b>PL0023_PR</b>            | NAM B.V.                                  | K7-FA-1P to K8-FA-1 | 18  | Pipe  | Active    |
| <b>SEA-ME-WE 3</b>          | T Systems International / Deutsch Telekom | n/a                 | n/a | Cable | Active    |
| <b>NeuConnect West</b>      | NeuConnect Britain Limited                | n/a                 | n/a | Cable | Planned   |
| <b>UK – Germany 3</b>       | -                                         | n/a                 | n/a | Cable | Abandoned |
| <b>Winterton – Borkum 1</b> | -                                         | n/a                 | n/a | Cable | Abandoned |
| <b>UK – DK 3</b>            | -                                         | n/a                 | n/a | Cable | Abandoned |
| <b>UK – Germany 4</b>       | -                                         | n/a                 | n/a | Cable | Abandoned |
| <b>UK – Germany 5</b>       | British Telecom                           | n/a                 | n/a | Cable | Abandoned |
| <b>UK – DK 1</b>            | -                                         | n/a                 | n/a | Cable | Abandoned |

### 3.3 Units

SI units (ISO/IEC 8000) are applicable for any activities carried out at the Wind Farm Zone.

### 3.4 Vertical and horizontal datum

The chart datum is Lowest Astronomical Tide (LAT).

All positioning data shall be collected in the European Terrestrial Reference System 1989 (ETRS89) and projected using ETRS89 Transverse Mercator Coordinate Reference System (UTM Zone 31N). The reference for this system is EPSG Projection code 25831 - ETRS89 / UTM zone 31N.

## 4 Quality requirements

This chapter describes quality requirements including data model and GIS data deliveries. During the process and delivery of the data you can always contact RVO for further information or explanations.

As RVO will make this data public available the metadata needs to be in line with the GDPR (AVG) requirements.

### 4.1 Spatial data

All created data in the study will be delivered by the supplier in GIS format. The supplier will need to comply with the data requirements set out by RVO and provide an inventory list of the deliverables supplied. The inventory should include project name, name of contractor and responsible person, survey date, product medium (i.e. hard drive, web service, etc.), folder structure and description of data contents.

- The data should be delivered in one of the following formats: ESRI File Geodatabase, TIFF or ESRI Shapefile (.shp). Should another format be used this can only be delivered after consulting with RVO.
- Both raw data and processed data along with any relevant GIS workspaces (MXDs) are required and should also include the associated reports and charts.
- Data preferably in a data model format like the *SeaBed Survey Data Model* (<http://www.ioqp.org/bookstore/product/guidelines-for-the-use-of-the-seabed-survey-data-model/>)
- Data described in the IHO S44 standards should be delivered according to that standard: [https://iho.int/uploads/user/pubs/standards/s-44/S-44\\_Edition\\_6.0.0\\_EN.pdf](https://iho.int/uploads/user/pubs/standards/s-44/S-44_Edition_6.0.0_EN.pdf). The geodetic system used for horizontal projections is European Terrestrial Reference System 1989 (ETRS89). EPSG code: 25831 <http://www.epsg-registry.org/>. If another CRS is used the transformation parameters to ETRS89 needs to be included.
- All GIS data shall be provided with Metadata describing specific details and origin regarding the spatial data. The requirements regarding the metadata are included in Appendix A.

### 4.2 Taxonomy

All contractors must use the taxonomy as presented in the taxonomy list, which is available online at <https://offshorewind.rvo.nl/cms/view/5c06ac88-c12f-4903-89f3-27d66937b7e9/general-information-ijmuiden-ver>.

### 4.3 GIS Metadata requirements

The requirements for GIS metadata which all Contractors shall comply with is shown in Appendix A of this document.

### 4.4 Mandatory data delivery BRO

RVO as a government agency is obligated by law to provide subsurface data to the central 'subsurface register' in the Netherlands. The specifics on the mandatory delivery to the "Basisregistratie Ondergrond (BRO)" is provided in the Scope of Work document whenever applicable.

### 4.5 Document control requirements

The naming of the documents shall be standardized in order to facilitate the document control during the whole project. The following naming code is required for all documents produced within the project:

NW\_Date\_Organization\_Name document\_Author\_Version\_Status

- NW: Nederwiek noord and zuid.
- Date: yyyymmdd, e.g. 20220713.
- Organization: Name of the organization e.g.
  - "RVO" for all internal and general documents produced by the Netherlands Enterprise Agency (RVO).
  - Consultant or Contractor name (shortened).
- Name document: Make sure the name clearly explains the content, include here the original name if from external party.
- Author: Abbreviation of the author if an internal document. Author shall be removed for final documents.
- Version: Revision number or date, respectively V01 till V0x\_D or 20200101\_F.
- Status: (D) for draft documents, (F) for signed and approved documents.

#### 4.6 Standards, formats, templates

All reports will be written in English and include an English and Dutch management summary.

Contractors provide for each completed study a publishable summary for the Project and Site description. Maximum 2 A4 including some high-resolution pictures or graphs.

All reports must use the terminology as specified in the online taxonomy list ([https://offshorewind.rvo.nl/files/view/dff880d4-9494-4e6d-b398-8fd1f097957e/162642502520210714\\_taxonomy%20list%20offshore%20wind%20energy\\_dutch-english.xlsx](https://offshorewind.rvo.nl/files/view/dff880d4-9494-4e6d-b398-8fd1f097957e/162642502520210714_taxonomy%20list%20offshore%20wind%20energy_dutch-english.xlsx))

All reports must use the terminology as specified in Appendix A of the Starting points and assumptions. For your convenience this dictionary is also available as XLSX file.

Reports and deliverables will be delivered by contractors in pdf and original, regular, formats (docx; xlsx; pptx; etc).

Final reports will have a cover according to the corporate identity of the Netherlands Enterprise Agency, with the following text:

- Front:  
Offshore wind energy Netherlands  
Site data Nederwiek Wind Farm Zone  
Name document

- Back:  
A colophon with the following content:

The creative commons license 4.0 apply to this material. (including a Creative Commons logo and hyperlink to the relevant Creative Commons website page: <https://creativecommons.org/licenses/by/4.0/>)

- The (investigation) (report) was carried out by <<name contractor>>, commissioned by RVO, an agency of the Ministry of Economic Affairs and Climate Policy. Whilst a great deal of care has been taken in compiling the contents of this document and the mentioned investigations, Netherlands Enterprise Agency (RVO) cannot be held liable for any damages resulting from any inaccuracies and/or outdated information.

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Croeselaan 15 | 3521 BJ | Utrecht | The Netherlands  
P.O. box 8242 | 3503 RE | Utrecht | The Netherlands  
[www.rvo.nl](http://www.rvo.nl) / <http://english.rvo.nl>

- Netherlands Enterprise Agency (RVO) | Date of publication

#### **4.7 Other data**

In the case of collected data: primary data must be delivered in regular formats.

#### **4.8 Deliverables (results / maps)**

All maps (in GIS and PDF) will unless agreed otherwise not show the investigation areas nor the specific Wind Farm Sites. The maps will only show the outer boundary of the Wind Farm Zone Boundary of the Nederwiek (NW) Wind Farm Zone.

#### **4.9 Storage of data (electronic / hardcopy)**

The Netherlands Enterprise Agency will store all reports and other relevant documents for at least five years both electronically and hardcopy.

## 5 Communication

### 5.1 Confidentiality

All information provided to contractors/suppliers by the Ministry of Economic Affairs and Climate Policy and/or the Netherlands Enterprise Agency and/or the Ministry of Infrastructure and Water Management and/or Rijkswaterstaat and/or TenneT must be regarded confidential.

All deliverables produced by contractors/suppliers remain confidential until a deliverable has been made public by the Ministry of Economic Affairs and Climate Policy and/or the Netherlands Enterprise Agency and/or the Ministry of Infrastructure and Water Management and/or Rijkswaterstaat and/or TenneT.

### 5.2 Accessibility public information

- Site investigations: [offshorewind.rvo.nl](http://offshorewind.rvo.nl)
- SDE: <http://english.rvo.nl/subsidies-programmes/stimulation-sustainable-energy-production-sde>  
Wind farm Site Decisions and EIA: <https://www.rvo.nl/subsidies-regelingen/bureau-energieprojecten/lopende-projecten>

### 5.3 Authorities

#### **Wind Farm Site Decision ('Kavelbesluit'):**

Ministry of Economic Affairs and Climate Policy

Laura Jansen

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T +31 (0)6-29645189

Rijkswaterstaat

Raoul Syrier

E [raoul.syrier@rws.nl](mailto:raoul.syrier@rws.nl)

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#### **Site data:**

Netherlands Enterprise Agency

Matté Brijder

E [matte.brijder@rvo.nl](mailto:matte.brijder@rvo.nl)

T + 31 (0)6 27878952

#### **Grid connection ('Transmissiesysteem op zee'):**

TenneT TSO BV

Johan Dekkers

E [johan.dekkers@tennet.eu](mailto:johan.dekkers@tennet.eu)

T +31 (0)6 29360328

### 5.4 Media

All media contacts will be coordinated by the Ministry of Economic Affairs and Climate Policy. If a supplier is approached by press representatives than he/she should refer to the spokesman of the Ministry only.

Ministry of Economic Affairs and Climate Policy

Caspar Itz

[c.itz@minez.nl](mailto:c.itz@minez.nl)

+ 31 610551061

### **5.5 Email**

All emails related to the site investigations must be send in CC to the project mailbox: NW@RVO.nl

The subject of an email related to Nederwiek Wind Farm Sites noord and zuid needs to start with the date and the abbreviation NW. Then also it needs to be followed by an abbreviation of the type of site survey. E.g. : NW\_20220713\_GP for the geophysical survey for NWWFS noord & zuid

### **5.6 Emergency Response**

In case of an emergency suppliers are obliged to inform the Netherlands Enterprise Agency immediately.

## Appendix A GIS Metadata requirements

Goal of metadata requirements is to make sure the future users of this data can use this data in the appropriate way and find out what the constraints of the usage of the data is from the metadata.

### **Format**

All data collected, either in the field or in a desktop study, by third parties must be provided with metadata. Data is preferably collected in an ArcGIS file geodatabase (version 10.6 or lower). In this case, metadata is stored within the data in the database. In case of a shapefile, GML or GRID metadata must be provided in pure XML-format as separate files.

Metadata must be compliant with the Dutch standard for metadata ISO 19115 version 2.0.2<sup>0</sup> (or any version available at the time of creating the data), in addition the column names of all data records. More information on the standard can be found here:

<https://www.geonovum.nl/geo-standaarden/metadata/nederlands-metadataprofiel-op-iso-19115-geografie>

To validate your metadata a validator is available from the website of Geonovum:

<https://validatie.geostandaarden.nl/etf-webapp/testruns/create-direct?testProjectId=3dd218a5-2ba3-3f1c-98fb-10e923839a3c>

### **Manufacture options**

Creating metadata should preferably be done when the data is acquired or created and checked and finalised before delivering the data.

Preferred option:

Organisations that use Esri software can use the GeoSticker application to create and edit metadata: <http://www.esri.nl/geosticker>.

Other options:

The Metadatamaker offered by the RWS can also be used to make the metadata and can be found at <http://rws.metainfomaker.nl/>

The Nationaal Georegister (NGR) allows meta data to be made, to do this a guest account is required. This can be requested by mailing to EZ geodatabasebeheer ([geodatabasebeheer.GISCC@RVO](mailto:geodatabasebeheer.GISCC@RVO))

Other options are possible as long as the data will be validated by the metadata validator for ISO 19115 version 2.0.0 (or newer version available at the time of creating the data) at the website of Geonovum

### **Metadata elements with explanation:**

#### **Identification**

##### **1. File title:**

No abbreviations, complete title of the dataset covering the content of the dataset.

##### **2. Status:**

According a standard list:

completed; historicalArchive; obsolete; onGoing; planned; required; underDevelopment.

##### **3. Source data date:**

- a. creation YYYY-MM-DD
- b. publication YYYY-MM-DD (date of approval by RVO)
- c. revision YYYY-MM-DD

##### **4. abstract:**

Short description of the content of the dataset.

**5. Subject / topics:**

Define the key topic(s) of the dataset

**6. Keywords:**

Keywords describing the dataset, e.g.

- Wind Farm Site
- Wind Farm Zone ... (Borssele or Hollandse Kust)
- ...
- ...

**7. Revision frequency:**

N/A

**8. Next revision date:**

N/A

**9. Purpose of production:**

Concise description of the original aim of the dataset

**10. Denominator :**

Scale on which the dataset can be used.

**11. useLimitation :**

Applications for which the data set is not to be used. I.e. Not to be used for navigation. Not to be used on a scale larger than 1:50.000

**12. accessConstraints:**

None, data will be published in the public domain

**13. useConstraints:**

The creative commons license 4.0 apply to this material. See hyperlink

<https://creativecommons.org/licenses/by/4.0/>

This investigation was carried out by ..., commissioned by RVO, an agency of the Ministry of Economic Affairs and Climate Policy. Whilst a great deal of care has been taken in compiling the contents of this investigation, RVO cannot be held liable for any damages resulting from any inaccuracies and/or outdated information.

**14. otherConstraints :**

Other restriction(s) if any.

**15. Description complementary document or website:**

On the RVO website general information about offshore wind energy can be found as well as links to more detailed information regarding the information of the investigation where this deliverable resulted from.

**Quality**

**16. General origin:**

General description of when, how and where the data was created / collected.

**17. Accuracy:**

Describe accuracy of the dataset.

**18. Completeness:**

Is the dataset complete? If not, a description of the incompleteness is necessary.

**19. Processing of data (if applicable):**

If data is processed, description of each step is required i.e. transformation or generalisation

**20. Source datasets (if applicable):**

Description of used source datasets (if any).

## **Coverage**

### **21. Geographical coverage:**

Geographical coverage of the file e.g. The Netherlands, North Sea.

### **22. Validity period:**

Define start and end date of validity of the dataset.

## **Content**

### **23. Attribute information:**

Description of all attributes, including - if applicable - all possible values and its measurement.

## **General**

### **24. Contact information:**

As this information will be made publicly available personal information should be avoided and generic contact details should be provided. If personal email addresses are provided that person should have given consent to use their e-mail address.

Contact information of client and/or creator and/or point of contact. At least one contact is mandatory. Name organisation, role organisation (owner, processor, point of contact, administrator, provider, creator), and an generic email address of contact department  
If website is available, name of contact and role of contact

Do to the GDPR it is no longer desirable to have personal information in the data, it is preferred to have a general email instead of a personal one and a function title instead of a person's name.

#### *Client:*

Business Name: ...  
Contact Person: ...  
Address: ...  
Telephone: ...  
Email

#### *Creator:*

Business Name: ...  
Contact Person: ...  
Address: ...  
Telephone: ...  
Email: ...

## Appendix B - MPK file of NW WFZ

[provided separately]