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Status Final

UXO desk study various site 6/7 and 3

Scope of Work

Contents

- 1.1 ORGANISATION: The Netherlands Enterprise Agency4
- 1.2 PURPOSE: Various Wind Farm Sites4
- 1.3 MAIN OBJECTIVES:4
- 1.4 RESEARCH QUESTIONS:4
- 1.5 DELIVERABLES:.....5
- 1.6 EXTENT AND DURATION:.....5

1.1 ORGANISATION: The Netherlands Enterprise Agency

RVO supports entrepreneurs engaged in sustainable, agrarian, innovative, and international business activities by providing assistance with grant funding, identifying business partners, offering sector-specific expertise, and ensuring compliance with applicable laws and regulations.

The objective is to enhance opportunities for entrepreneurs and to strengthen their market position. The Agency works at the instigation of ministries and the European Union.

RVO focuses on providing services to entrepreneurs. It aims to make it easier to do business using smart organisation and digital communication. RVO operates in The Netherlands and abroad with governments, knowledge centers, international organisations and countless other partners.

More information about RVO can be found on: www.rvo.nl and <http://english.rvo.nl>.

1.2 PURPOSE: Various Wind Farm Sites

Get insight in the risk of presence of unexploded ordnances (UXOs) in Search Area 3 & Search Area 6/7 for potential Wind Farm Sites.

Describe identified areas with an increased risk and get insight into the types of ordnance and their characteristics that are likely to be present.

1.3 MAIN OBJECTIVES:

1. Identify possible constraints for offshore wind farm related activities in Search Area 3 & 6/7 as a result of the presence of UXOs.
2. Define specific requirements related to the presence of UXOs for any wind farm related activity that is to be carried out in Various Wind Farm Sites. And identify areas that should preferably not be used for the installation of offshore wind farms and/or cables or any other structure;
3. Identify possible requirements from UXO point of view that should be taken into account for:
 - a. Determining the different concession zones in the Various Wind Farm Sites.
 - b. Carrying out geophysical & geotechnical investigations.
 - c. Specific requirements (legal obligations, specific procedures) to be taken into account when finding UXOs.
 - d. Installation of (wind turbine) foundations.
 - e. Installation of cables and pipelines.
4. Identify whether any further investigations should be carried out regarding the presence of UXOs and define the scope of these investigations, including their spatial extent.

1.4 RESEARCH QUESTIONS:

1. Are there any (indications for) areas with an increased risk regarding the presence of unexploded ordnances (UXO)?
2. If present, which are the expected areas where UXOs are likely to be found? Which types of UXOs can be expected and what is their distribution density (where possible)?; What are the individual mine lines?; What are locations where UXO's have been cleared?

3. Which mitigating measures should be taken into account for areas with an increased risk of finding UXOs?
4. Which types (incl. characteristics) of ordnance are likely to be present at Various Wind Farm Sites? Are there any knowledge gaps?
5. In order to support the scoping of further investigations (if any) and of UXO verification tests: what should the minimal magnetometer threshold be? If necessary, undertake high level modelling to estimate the geophysical response of the types of ordnance that would require detection.
6. What is the potential for ordnance migration, burial, and scour, and what is the required maximum detection range?

1.5 DELIVERABLES:

1. A descriptive report in English including at least:
 - a. Data that have been used in the assessment.
 - b. Description of the analysis carried out.
 - c. Detailed clarification of the research questions.
 - d. An executive summary and conclusions of the assessment.
2. A summary of the assessment (results) to be published in the Project and Site Description.
3. Maps of the Wind Farm Zone showing areas with no risk, low risk, as well as increased and high risk, regarding the presence of UXOs (in JPEG, PDF and GIS). Including:
 - a. Suspected densities of UXO's;
 - b. looking at individual mine lines;
 - c. Clearing of UXO's in determined areas.
4. Assessment results presented in a NCP grid, to facilitate easy sharing between other government organizations, like RWS and Tennen (in JPEG, PDF and GIS).
5. All documentation needs to comply with WCAG (Web Content Accessibility Guidelines).
6. All deliverables must be provided in the English language.
7. Final report to be delivered in Januari 2026 at the latest.

1.6 EXTENT AND DURATION:

All deliverables and the related services must be delivered by Januari 2026.