

Market orientation 'Morphodynamics and Scour of the Hollandse Kust (west) Wind Farm Zone' for The Netherlands Enterprise Agency

The Netherlands Enterprise Agency (in Dutch: Rijksdienst voor Ondernemend Nederland, RVO.nl) encourages entrepreneurs in sustainable, agrarian, innovative and international business. It helps with grants, finding business partners, know-how and compliance with laws and regulations.

The Netherlands Enterprise Agency is part of the Ministry of Economic Affairs and Climate Policy.

Background

RVO.nl has been requested to prepare and collect all site data required for commercial developers to prepare a competitive bid. As part of the future concession tender document(s), the participants will receive information packages in which detailed information on the offshore site is included. Detailed information on the morphodynamical conditions at the site will be part of this information package. The Hollandse Kust (west) Wind Farm Zone will be the fourth Wind Farm Zone for which (a) concession tender(s) will be organized. The Hollandse Kust (west) Wind Farm zone (HKWWFZ) is located 51 kilometres off the west coast of the Netherlands. The HKWWFZ contains two Wind Farm Sites. In total, 1.400 MW new offshore wind capacity is planned in the HKWWFZ.

Purpose of this notification

The purpose of this notification is to determine which contractors are willing and able to carry out a morphodynamical and scour assessment of the Hollandse Kust (west) Wind Farm Zone.

Extent and duration

The study will start in November 2019 and must be finished by the end of May 2020.

Description of the assignment

Purpose:

To improve the geomorphological understanding of the Hollandse Kust (west) Wind Farm Zone to inform tenderers preparing their bids. The study will consist of analyses of the autonomous seabed dynamics and the scouring to be expected due to the wind farm installations.

Main objectives

1. To characterize the seabed features at the HKWWFZ.
2. To assess the morphodynamics at the HKWWFZ;
3. To predict the change in seabed levels at the HKWWFZ over the lifetime of a wind farm to support the design, installation and maintenance of wind turbines, inter array cables, substations and their support structures
4. To describe the scour magnitude and extent to be expected at typical structure types, and;

5. To provide an overview of scour mitigation measures and their applicability at HKWWFZ at these structures.

Deliverables

1. A descriptive report in English and a summary in Dutch describing at least:
 - a. Description of the site, the available data sets and available literature
 - b. Description of the applied methodology, analyses and definitions
 - c. Characterization of the seabed morphology at the site, including plots of the HKWWFZ showing specific morphological features.
 - d. Characterization of geological conditions and stratigraphy;
 - e. Results of the geophysical and morphodynamic analyses;
 - f. Description of the resulting best estimate and minimum and maximum seabed levels;
 - g. Result of scour predictions and scour protection methods;
 - h. Conclusions of the assessment and recommendations.
2. Collected raw- and processed bathymetrical data (raw GIS and xyz data).

Minimum suitability requirements

1. Supplier should have experience with similar morphology and scour studies carried out for offshore wind farms;
2. Supplier should have experience with assessments of the offshore morphology of the southern part of the North Sea;
3. Supplier should be able to provide a morphodynamic expert with at least 10 years of experience to supervise the project.

Application

Interested consultancy firms, fitting the above mentioned requirements, are invited to respond to RVO.nl, to the attention of Liesbeth de Man of the Procurement Office by submitting a message through TenderNed or by e-mail iucezteam1@rvo.nl. Please state the name of the contact person of your company and his or her e-mail address.

You do not have to send in any documents; send only a response whether you are interested.

Deadline

The deadline for responding to this Notification is set at **19 August 2019, 12:00 hrs P.M. CEST**. Companies who have responded in time will receive a Request for Proposal in the first part of September 2019.