# Market orientation 'Morphodynamical Assessment of the Hollandse Kust (noord) 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

The Netherlands Enterprise Agency (Rijksdienst voor Ondernemend Nederland, 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 (noord) Wind Farm Zone will be the third Wind Farm Zone for which (a) concession tender(s) will be organized.

## Purpose of this notification

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

## Extent and duration

The study will start in June 2018 and must be finished by the end of October 2018.

## Description of the assignment

Purpose:
Improve the geomorphological understanding of the Hollandse Kust (noord) 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. Characterize the seabed features at the Hollandse Kust (noord) wind farm zone;
2. Assess the morphodynamics at the Hollandse Kust (noord) wind farm zone;
3. Predict the change in seabed levels at the Hollandse Kust (noord) wind farm zone 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. Describe the scour magnitude and extent to be expected at typical structure types, and;
5. Provide overview of scour mitigation measures and their applicability at HKN 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 Hollandse Kust (noord) wind farm zone 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-, 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 be familiar with specific Dutch offshore morphology;
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 the Netherlands Enterprise Agency, 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 documents; send only a response if you are interested.

**Deadline**

The deadline for responding to this Notification is set at **Monday April 23, 2018 2 hrs P.M. CEST**. Companies who have responded in time will receive a Request for Proposal.