

Market orientation “Aeronautic Study black blades windturbines” for the Netherlands Enterprise Agency

This Market orientation is being conducted by the Netherlands Enterprise Agency (in Dutch: Rijksdienst voor Ondernemend Nederland, RVO).

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

Context

The Senate of the Parliament accepted a motion on black blades on June 22 in 2021 (motie Berkhout c.s.)¹. This motion requests the cabinet to make black blades mandatory by tendering offshore windfarms, to reduce as many bird collisions as possible. In response to this motion, several studies are executed to investigate the efficiency and effectiveness of the black blade (DNVGL, 2022)².

However, it is only allowed to apply black blade when it is demonstrated that the safety of air traffic is not compromised. The Human Environment and Transport inspectorate (ILT) assesses whether the safety level of air traffic is met as stated in the information sheet “Aanduiding offshore windturbines en offshore windparken” ([Informatieblad verlichting en markering offshore windturbines en offshore windparken – In relatie tot luchtvaartveiligheid - Noordzeeloket](#)).

To assess the impact of black blades on air traffic safety, this study is initiated by RVO. The aim is to simulate several scenarios where coloured or black blades are applied in an air traffic simulator. As black blades are not applied yet offshore, the reliability of the simulator should be assessed by means of a validation case.

For validation, the Eemshaven wind farm is used. This wind farm has started a pilot by applying 8 black blades since 2022, to assess the impact on bird collisions and on air traffic safety. For validation, pilots who have experience with flying around this wind farm should assess the reliability of the visuals of the simulator setup.

The second phase of the study will focus on simulating the Hollandse Kust West (HKW) wind farm with black and coloured blades. This wind farm is planned to be tendered in 2024.

¹ Kamerstuk 35.092, G

² (DNV, Black Wind Turbine Blades: Technical and Financial implications (2022) 22-1353, Rev. 1)



Figure 1: Black blade Eemshaven

Purpose of this market orientation

The purpose of this market orientation is to determine which candidates are both willing and able to undertake the aeronautic simulation study on black blades on Offshore wind turbines. The candidate must have experience with air traffic simulations.

Extent and duration for the study

The following deliverables are expected:

- Kick-off meeting in January 2024
- Draft report aiming for June 2024
- Final report Q3 2024

Application

Interested companies are invited to send an expression of interest to RVO, by sending an e-mail to IUCEZteam1@rvo.nl, to the attention of Lex Spobeck of the Procurement Office. Please state the name of the contact person of your company and his or her e-mail address.

Interested companies are furthermore requested to fill in Annex 1 and provide references that correspond to the requested key competences. RVO wishes to select 3 candidates who will be invited to submit a proposal.

If there are more than 3 suitable candidates, they will be assessed on the basis of the selection criteria stated below. In this way, the number of candidates will be limited to five. A ranking is made of the candidates on the basis of their differences in experience.

Each suitable candidate can achieve a maximum of 100 points based on a filled in Annex 1. The ranking is based on the definitive total score of the candidates.

Selection criteria	Maximum number of points
Demonstrable knowledge and expertise in windfarm simulations for air traffic	40
Experience with and/or knowledge of air traffic in the North Sea or comparable region.	40
Knowledge of and experience with international laws (ICAO) regarding air traffic and obstacle visibility.	20
Total	100

Both selection criteria will be assessed on the extent to which the experience of the Candidate is appropriate and suitable to perform the study.

Assessment method for the selection criteria

During the assessment, the assessment team will use the following scale for the weighting of the selection criteria.

Quality of the response	Weighting percentage of the maximum points available per preference
Excellent: The response significantly exceeded expectations and offers a great deal of added value.	100%
Very Good: The response exceeded expectations and offered some added value in places.	80%
Good: The response sufficiently met our expectations.	60%
Fair: The response did not completely meet our expectations and displays shortcomings with regard to certain aspects.	40%
Poor: The response does not meet expectations and clearly displays many shortcomings.	20%
No response was provided to the question.	0%

Deadline

The deadline for responding to this Market Orientation is set at **November 15, 2023 (12:00 P.M. CET)**. Companies that have not responded before the mentioned deadline will not be invited to participate in the tender. The current planning is to dispatch this Request for Proposal on **November 20, 2023** (but no rights can be derived from this).