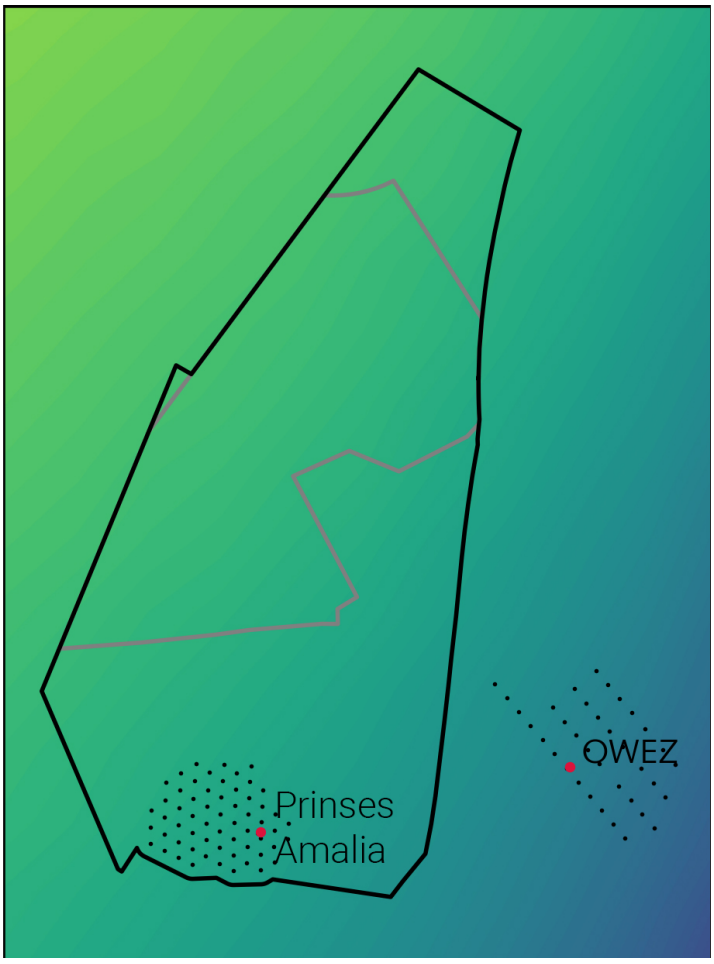
Press Release

Whiffle selected by the Netherlands Enterprise Agency in a winning consortium for Hollandse Kust Noord Wind Resource Assessment

Delft, the Netherlands – 8 October 2018

A consortium consisting of Oldbaum Services, Pondera Consult, Whiffle and Deltares will support the Netherlands Enterprise Agency (RVO.nl) by conducting a Wind Resource Assessment (WRA) for Wind Farm Zone Hollandse Kust (noord) (HKN). The quartet was awarded the contract, among others due to extensive prior experience both in Dutch and European offshore wind projects.

Uncertainty reduction
The WRA – a desk study on the wind climate in the area of future Wind Farm Zone HKN – is used as input for the modelling of wind farms and/or estimating the future energy production of a wind farm. The approach of the study has the goal of reducing the uncertainties in this wind energy project, which might lead to a reduction of costs.



Hollandse Kust (noord) zone, next to existing wind farms

In order to achieve the most accurate results possible, the consortium will use the latest, state-of-the-art measurements techniques and models. Data from metmasts and (floating) LiDARs (laser-based wind measurement devices) will be combined with already existing data from KNMI/Rijkswaterstaat monitoring stations. This allows the wind climate to be determined and verified.

1 million households
The Dutch government wants to achieve a 14% renewable energy share in 2020, growing to 16% in 2023. Wind energy is an important renewable energy source in the Netherlands.

Wind Farm Hollandse Kust (noord) Wind Farm Zone is one of the offshore Wind Farm Zones designated by the Dutch government, with a total power output of 700 MW. This Wind Farm Zone will be located 18.5 kilometres off the coast and will provide power to 1 million Dutch households. This Wind Farm Zone is one of the six new offshore Wind Farm Zones which will be developed in the Netherlands.

Remco Verzijlbergh, director of operations of Whiffle:
"The R&D activities to improve our LES model GRASP have resulted in a unique and highly accurate modelling of individual wind turbines in their environment and the associated wake effects. With our model we can forecast the effects of intra and inter-wind-farm wake effects on the electricity production taking all relevant physical phenomena such as atmospheric stability into account. The model can run on long term historical data for the production of wind resource assessments and also in an operational setting for day-ahead power forecasts. We are very pleased to apply our technology in this project for the benefit of offshore wind developers."

About Whiffle
Whiffle B.V. has been operational since 2016 and was started as a spin out of the Delft University of Technology. With its roots in science, the company has continued cutting edge R&D to further develop the Large Eddy Simulation (LES) models and a unique implementation on high performance computing systems. This resulted in the world's first LES based operational weather model that can perform highly accurate and high-resolution weather forecasts. Application areas of Whiffle's model include wind and solar power projects, dispersion of air pollution, aviation and agriculture.

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