

Date 17th April 2015, Friday

Reference Westermeerwind Project: Wind and motion measurement

To whom it may concern,

For the Westermeerwind Windfarm installation project, Mammoet is in a joint venture with Van Oord and the employer is Siemens. The project scope is to install foundations and wind turbine generators with a crawler crane atop a column-supported barge through March to September, 2015 in the shallow Lake IJssel in the Netherlands.

Tarka was requested to build and install a customised motion and wind sensor on the working barge. The following features were desired:

- Very accurate motion sensor to relay roll, pitch and yaw motions and the translational accelerations whether the barge is column-supported or floating
- The existing wind meter's output (in MilliAmperes) to be read by the sensor and the measured wind speed is displayed on the user screen in meters/second
- A user-friendly interface where all data could be easily read
- Convenient automatic data storage option; where files could be used for post-processing

On all these aspects, the quality delivered by Tarka is outstanding. Further, Henry was willing to think along with us on our project requirements. The combination of sensors was, in the end, very well-tailored to our purpose. The association with Tarka did not end with the installation of the system either. Regular follow-ups ensued and a couple of modifications were done to output the 1-minute and 10-minute averaged wind speeds as well.

I am very satisfied with Tarka's quality of work, proactiveness and client-oriented approach. The fact that they go that extra mile to make our job easier is profoundly appreciated. I am very happy to recommend Tarka as well as look forward to collaborating with them on future projects.

Yours faithfully,

Ir. Satish Prabhakar
Naval & Offshore Engineer