

Dear Offshore Professional,

In this edition of our Newsletter we talk a lot about risks.

First in the form of boulders which represent, of course, a huge installation and trenching risk along the cable route. As part of a Burial Assessment Study we carried out some 'micro-rerouting' with the help of ARCGIS. See below as there is more to read about a 'boulder infected' cable route.

Then another risk issue we come across again and again: cable failures. Some 80 (eighty) per cent of claims relate to cables. With this huge percentage in mind, we again tackle the issue. More below to follow.

We now move from risk and talk about our involvement in the Westermeerwind wind farm. Project Director Peter de Weijts is pleased with the contribution of our Offshore Construction Management Personnel.

Finally: We are moving, just some doors further. With increased space for more colleagues, with the same nice view on the Erasmus bridge. Should you be around drop us a line and visit us!

And now, just as always: Enjoy reading and if you may want to get in touch and share your thoughts!

Your Primo Marine Team

Rotterdam, May 2015



Boulders, boulders, boulders... - Reducing the installation and trenching risk along the cable route

Of course, trenching could be so easy if only these boulders would not exist along the cable route. Really annoying they represent an obstacle for the trenching process leading to a waste of money, time and equipment. For a recent project in the North Sea we made statistical analyses with ARCGIS which proved really helpful: we meticulously prepared the Burial Assessment Study. As a part of the BAS we also analysed the obstacles with ARCGIS. One question we raised was for example: how many boulders protruding more than 30 cm above the seabed are along the route from KP to KP within the cable corridor? What is their distribution and what is the average distance between those boulders? With this in mind we asked ourselves pragmatically what the options are to avoid these boulders? By micro-rerouting within the limitations of the provided corridor we found new routing options which proved to be significantly less 'boulder-infected'. Our conclusion is: statistical analyses with ARCGIS add value to the survey, provide pragmatic input to route engineering and as a consequence reduce the risks during the burial process. Identification and quantification of boulders with the help of ARCGIS proved to be quite effective. It certainly helps in the process of finding cable routing alternatives. Avoiding is better than mitigating. For more information please contact: [Wino Snip](#).



A hot issue!

Cable failures is at present one of the hottest issues in the offshore (wind) industry as it turns out that 80 (eighty) per cent of claims relate to cables. With a repair vessel costing well some € 150.000,00 per day - excluding other costs and lost revenue - and a downtime averaging up to 8 (eight) weeks this can quickly turn out to be a serious matter burdening the budget. To save you from 'burning' money we set up Emergency Response Schemes. These allow to quickly react in the event of a cable failure thus limiting costs, risks, repair and down time. Please contact [Jaap Smit](#) for further information.



Photo@Westermeerwind

Offshore Construction Management Services for Westermeerwind wind farm

Primo Marine is engaged in another wind farm construction project, Westermeerwind, which is to date the largest wind farm in The Netherlands. It is located in the waters of the Dutch IJsselmeer along the dikes of Noordoostpolder. The capacity is 144 MW delivered by 48 Siemens Direct Drive 3.0 MW wind turbines. Although it is in very shallow waters it has its own installation characteristics and challenges.

With the recent special pile driving experience from a previous wind farm project, i.e. pile driving on flanged mono piles, Primo Marine was invited to provide the Client Representatives for Westermeerwind on board the construction vessels. On behalf of the Client, Westermeerwind, the Primo Marine team is overseeing the mono pile installation, heavy lifting and WTG installation and marine coordination activities. The first mono pile was successfully driven on 10th March 2015. First electricity is expected in August 2015 and the wind farm is scheduled to be fully operational by the beginning of 2016.

Westermeerwind Project Director Peter de Weijts is pleased with the involvement of Primo Marine personnel and is convinced that this adds to the experience of the Westermeerwind team. More information can be obtained from [Jaap Smit](#).



Thetis EMR conference

In just a couple of days - May 20 & 21, 2015 - we will be attending Thetis EMR conference in Nantes, France. Please contact [Susanne Kovar](#) to set up a meeting.



**:: New address from June 1st ::
:: Haringvliet 76, 3011 TG Rotterdam, The Netherlands ::**

We are moving and will have more space. Our new address from June 1st will be: Haringvliet 76, 3011 TG Rotterdam, The Netherlands. Phone & fax numbers will be transferred. Luckily it is 'just next door' and so we do not have to leave the beautiful surroundings of the Oude Haven.

New Colleague:

We are happy to announce that Gerben Postma joined us in January 2015 as a Senior Project Manager. Gerben has over 20 years of project and engineering management experience principally related to working with both contractors and engineering companies. Gerben's speciality is pipeline landfalls and is complementing the portfolio of our capabilities and team. Gerben is actively involved in the Gemini project assisting the wind farm owner with technical advice on cable installation and burial.



Career Opportunities:

For our various projects we are looking for dedicated Engineers and Project Managers on both junior and senior level with a background in the offshore industry. If you are interested please contact [Jaap Smit](#).

Here Follows a Selection of Projects Executed for our Clients:

- Supporting the Gemini project team with technical advice on cable installation and burial.
- Detailed Burial Assessment Study along 300 km of the Cobra Cable.

- Provision of Client Representation Services for mono pile installation, heavy lifting and WTG installation and marine coordination activities with regard to the installation of the Westermeerwind wind farm.



Download Area

A variety of information about the support and expertise we offer can be obtained from our website. Please go to our download area:



Short Profile of Primo Marine

Primo Marine is an independent privately owned engineering company. We focus on offshore cables (export, infield, umbilical), offshore pipelines and dredging. Installation engineering, project management, procurement and tender support & expert services are our areas of expertise and we are covering the whole lifecycle of the cable/pipeline: Pre-construction – Installation – Operational – Maintenance, Repair – Decommissioning.



Primo Marine is a member of the International Marine Contractors Association (IMCA) and greatly supports the use of IMCA guidelines.

Primo Marine, Haringvliet 76, 3011 TG Rotterdam, The Netherlands

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