CT Offshore A/S is a longstanding subsea contractor providing safe and specialised engineering solutions to the offshore wind farm industry. As part of the A2SEA Group, CT Offshore offers an integrated management team operating from two sites in Denmark who manage the company’s projects within European waters.

Equipped for the job

CT Offshore operates a bespoke fleet of four vessels including one main cable laying vessel (CLV) with highly-sophisticated equipment and remote operated vehicles (ROV), allowing the company to supply clients with a wide range of installation services based on equipment owned and operated by CT Offshore. The vessels are: CLV SIA, MV NICO, MV LINE and MV SANDER 2.

CT Offshore provides the full spectrum of services from planning to cable lay, installation burial and final documentation. It has a strong proven track record with projects completed on time to the full satisfaction of clients, being able to provide a reliable service for all phases of cable installations including:

- Cable route design and planning
- Burial assessment surveys
- Route clearance
- Shallow water installations
- Load-out of cables to carousels from production facilities, or pre-cut lengths from drums
- Design of cable pull-in and protection systems
- Pre-lay surveys – site investigation, light debris clearance, foundations/J-tube/scour
- Experienced rigging teams
- Pull-in equipment designed specifically for the job
- Quality installations and cable laying in all water depths
- Strong track record in shallow water operations with DP vessels
- Installation & lay monitoring
- MTB survey of installed cables
- Testing IR & OTDR
- Post-lay burial by trenching

CT Offshore believes that its project management team, combined with the talent of its engineering team (in conjunction with their ‘no compromise of safety’ culture) has led to the company’s impressive track record.
State-of-the-art equipment and long-term employed specialist personnel operating this equipment have been a strong advantage to the continued excellent track record of CT Offshore.

An impressive installation record

The company recently demonstrated to the offshore sector the installation of up to three cables per day by CLV SIA on the West of Duddon Sands project, which was planned for completion in February 2014. From a very early stage it was quite clear that this site presented many challenges with the cable installation. One of the main challenges was the modifications required to the cable vessel, thus allowing the installation of two to three
cables per day with the specified cable protection system.

**Staying ahead of schedule**

In addition, the goal was achieved by overcoming the many difficulties both engineering and logistical to reach completion of the cable installation. Work commenced in June 2013 to install 108 array cables. CLV SIA finished the operation in November 2013, well ahead of schedule. The meticulous planning and engineering played an enormous part in the success of this project, however it was the highly skilled crew and the performance of the vessel that proved that there is no substitute for experience.

**Cable installation awarded at Gwynt y Môr**

From the successful early completion and performance of the array cable installation, it was clear that this played a key part in the contract award from RWE. A total of 63 cables are to be installed at Gwynt y Môr OWF. CT Offshore has also been asked to provide in-house geo-technical data that will be obtained and delivered by MV LINE which is one of two purpose design survey vessels in the fleet.

CT Offshore continues to strive to be the best. With its impressive safety record and continued successful installation of cables in challenging conditions, CT Offshore is leading the way in a difficult market. Continued investment in personnel and equipment is extremely important to its development.

**Want to learn more? 2014 Cable and Survey Forums**

The knowledge of the installations and the safety record that CT Offshore has demonstrated over the years is an example to be passed on. CT Offshore’s methods have proved to be the safest and most cost effective way to install cable within the industry.

Therefore, throughout 2014 CT Offshore is offering to host cable and survey forums to existing and new clients who would like to learn more about the company’s methods, details of which can be obtained through the office by sending an email to: anp@ctoffshore.dk.