

Case Study: Clever Cable Care Solutions

1.0 Facts

Services

Clever Cable Care Solutions

Through offering of extensive expertise focused completely on reducing (1) installation risk (2) installation cost (3) cost of seabed preparation (4) claims (by differing parties/stakeholders).

Related Services

Pre-Construction Engineering, Project & QHSE Management, Tendering, Procurement & Financial Support, Offshore Construction Support and Client Representation.

Summary Scopes Completed

Clever Cable Care Solutions: NorNed, BritNed, IFA2, NordLink, NordBalt.

2.0 Introduction

Primo Marine provides solutions focused on delivering clever cable care throughout its lifetime, aiming at minimising cost and risk thus leading to a more realistic CAPEX/OPEX balance. Throughout all stages of licensing, design and installation to the aftercare requirements of operations and maintenance.

3.0 Subject Matter Expertise

Primo Marine offers a comprehensive capability in regard to the provision of subject matter expertise, covering pro-active problem solving of events, challenges and issues (including the arranging and management of third parties). In summary:

The conducting of complete peer reviews, including establishing and management of project risk registers. Reviews designed to incorporate all practical lessons learned from extensive track record, as well as offshore cable industry.

- The management of multiples subsea activities including provision sum operations.
- The provision of subject matter expertise including pro-active problem solving of events, challenges and issues (including the arranging and management of third parties).
- The interfacing with all significant parties to provide technical solutions.
- Reviewing methodologies, procedures and providing confidence in the documentation.
- License management and supporting of licenses, agreements and approvals.
- Advising with all project documentation and the management of.
- Translation of technical issues into contract and permit requirements.

4.o Engineering Pre-Construction (installation preparation)

Primo Marine has extensive expertise, in-depth knowledge and experience to provide independent engineering solutions designed to ensure the best starting conditions for all projects are achieved.

- **Route Analysis, Route Optimisation and Protection.**
 - Including Route Engineering, Design and Preparation (reduce installation cost and risk), Seabed Mobility Assessments (presence of seabed features).
- **Risk Based Studies, Design and Analysis.**
 - Including Burial Assessment Studies (including Trencher Selection), Risk Based Burial Design, 3D Analysis Profiling (covering adjusting profile, modelling of route, pre-sweep) and Crossing and Landfall Designs.
- **Peer Reviews (including subject matter expertise).**
 - The conducting of complete peer reviews, including establishing and management of project risk registers. Reviews designed to incorporate all practical lessons learned from an extensive track record, as well as offshore cable industry. In order to ensure risk mitigation relating to installation and protection operations.

5.o Project Management

Primo Marine provides management expertise, either as complete or bespoke supporting packages within CAPEX/OPEX projects, such as independent management over verification of installation and burial equipment in accordance to their respective specification and performance criteria.

6.o QHSE

Primo Marine provides complete Corporate and Project QHSE management expertise including QHSE Engineers and Offshore Safety Advisors, to cover all the key risk areas such as regulatory compliance, risk and incident management and vessel assurances. In order to ensure all project operations are executed in accordance with all internal and external QHSE requirements.



7.o Offshore Client Representation/Construction Support

Primo Marine has extensive offshore expertise and experience to ensure the effective planning, scheduling and thorough execution of all offshore scopes. Offering a dedicated offshore team, each with over twenty five years' experience related to offshore construction works. This expertise enables the multi-tasking and prioritisation of crucial offshore operations in order to ensure projects are safely executed to a high quality, typical scopes are:

- Liaising with Marine Warranty Surveyors.
- The Management Support & Interfacing of all installation, trenching, dredging and construction support scopes.
- The management of multiple subsea activities including provision sum operations.
- Offshore Surveyors (including Hydrographic, Geotechnical and Geophysical disciplines) and campaigns related to the pre-construction phase in terms of acquiring crucial data for route engineering (1) route surveys (2) UXO surveys.

8.o Comprehensive Coordination

Throughout complete liaising and interfacing with all key stakeholders and authorities in regard to permitting, crossing agreements and approvals.