



Oil & Gas

Global Marine

Systems

CASE STUDY

Delivering platform to platform fibre connectivity in the North Sea for Tampnet



Global Marine Systems Limited was selected by Tampnet to further extend their offshore fibre network in the North Sea in 2014. Tampnet selected Global Marine to provide subsea engineering services for the project, which was deployed for a major international oil company.

Tampnet has subsequently contracted Global Marine to continue with further phases of work in the North Sea into 2015.

Tampnet operates the largest offshore high capacity communication network in the world, and at the time of installation in October 2014, served more than 150 oil and gas platforms, Floating Production Storage and Offloading units (FPSOs) and exploration rigs on both the Danish, Norwegian and the UK continental shelf of the North Sea, as well as in the United States in part of the Gulf of Mexico.

Techniques used

The solution required Global Marine to provide an end-to-end range of services encompassing all elements leading to installation including: marine survey & route engineering, marine permits, route clearance, pre-lay grapnel runs, mattress installation over pipeline crossings, cable installation including plough burial, post lay inspection and burial in addition to providing detailed post installation information.

Cable Innovator, an experienced offshore engineering vessels successfully executed the installation phase of the project operating in close proximity to both pipelines and platforms.

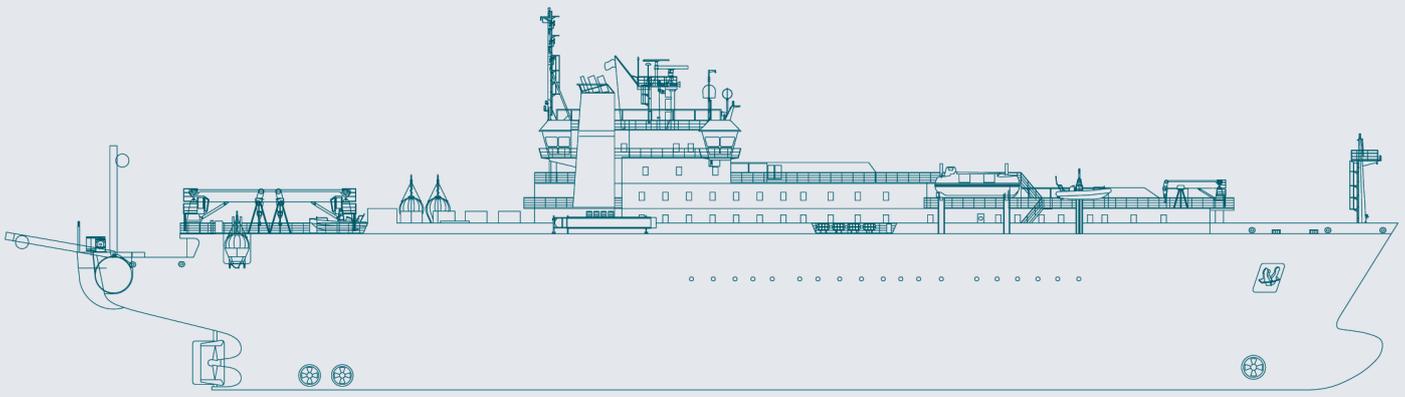
Vessel: Cable Innovator

Location: North Sea

Cable Length: 87km

Activity: Platform-to-Platform Connectivity





We have been very pleased with the delivery of the project and the working partnership that has grown between Global Marine and Tampnet. The major oil companies are some of the most discerning customers in the world and working with businesses that enable us to meet those standards is of great importance to Tampnet.

Anders Tysdal
Technical Director of Tampnet

Key challenges

With any project of this nature significant pre-project planning is required, sound engineering solutions in place and a complete commitment to QHSE.

Global Marine during the project installed protective matting over existing pipelines prior to the installation of the fibre optic cable. In addition to this the jetting package had to be fitted to the plough to achieve the burial depths required due to hard seabed conditions.

The vessel entered the 500m zone of the platform to pull the cable end onto the platform, deploy the fourth and final branching unit and complete the post lay inspection and burial of this section of the route (see picture above).

Offshore Communication Developments

Fibre optic communications networks are revolutionising offshore oil and gas operations by enabling faster and improved decision making, increasing efficiency and offering significant cost savings.

Field information is critical intelligence; rapid subsurface and production data analysis can lead to enhanced recovery, while real-time communications also provides additional benefits of improved quality, health, safety and staff welfare in offshore facilities.

Global Marine with a legacy in excess of 160 years in subsea engineering, is well placed to deliver solutions that meet the exacting needs of the industry.

For further information on Global Marine please visit our website www.globalmarinesystems.com or contact our sales team.

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