

Geophysical and UXO Route Survey Seagreen Offshore Windfarm

Project Details

Location: Carnoustie to Seagreen OWF
Water Depth: 12 - 69 meters
Date: Summer 2020
Client: Nexans Norway AS



Scope Of Work

iSURVEY AS was contracted by Nexans Norway AS to provide the Siem Pride, fully equipped with ROV and equipment, to conduct a Geophysical and Unexploded Ordnance (UXO) survey along three planned export routes between Carnoustie (UK) and the Seagreen Offshore Windfarm.



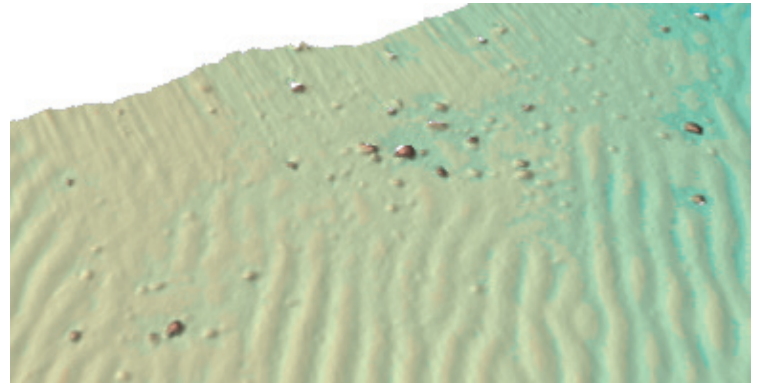
MV Siem Pride

iSURVEY, as the main contractor to Nexans, had full responsibility for the planning and performance of the following:

- Preparation for the complete work
- Mobilising the Siem Pride and IKM Merlin ROV
- Data acquisition, processing, interpretation and reporting

The survey system provided included the following:

- Surface and Subsea positioning
- Precision INS positioning
- Dual Head Multi-beam
- 600kHz Side Scan Sonar
- Sub Bottom Profiler
- Transverse Gradiometer System
- General HD Video Inspection



Bathymetry image showing sand ripples and boulder area

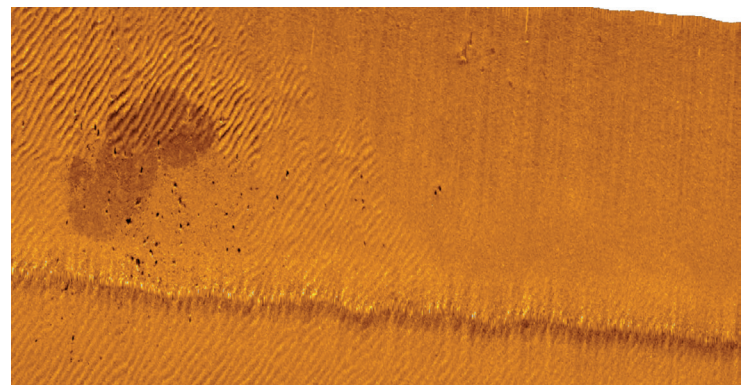
The operation was divided into two parts; the geophysical survey, and the UXO survey, including video coverage.

The Geophysical Survey contained coverage of a 20-meter corridor with multi-beam, side scan and sub bottom data along the center line of the three planned routes, running from the onshore transition station at Carnoustie out to the offshore platform at Seagreen Windfarm - a distance of 58km.

The UXO survey acquired gradiometer data and video along the same center lines, with two additional winglines carried out to get the sufficient coverage required.

The main purpose of the survey was to document the planned routes in order for Nexans Norway to perform further assessment and engineering. There was a focus on:

- establishing seabed conditions and potential obstructions;
- defining sub-seabed soils, conditions and environmental interests, and;
- identifying magnetic anomalies and potential UXO targets
- visually inspecting the route



Sidescan sonar image showing sand ripples and boulder area

The final delivery to Nexans included:

- Multi-beam Echosounder DTM
- Sidescan Sonar Mosaic
- Geophysical Interpretation Report
- Alignment Charts
- SSDM GIS Database
- Field Report

NORWAY

iSURVEY Group AS
 iSURVEY AS
 Billingstadsletta 14
 NO-1396 Billingstad
 Norway

+47 4541 4100
 norway@isurvey-group.com

sales@isurvey-group.com

UNITED KINGDOM

iSURVEY Offshore Limited
 Unit 7, Kingshill Park
 Venture Drive, Westhill
 Aberdeenshire, AB32 6FL

+44 (0)1224 418210
 uk@isurvey-group.com

SINGAPORE

iSURVEY Pte Ltd
 22 Pandan Road
 Singapore 609274

+65 6513 0589
 singapore@isurvey-group.com

www.isurvey-group.com

