

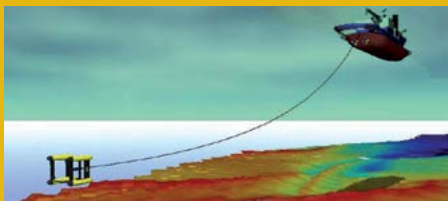


**SUBSEA
PROJECTS:
INTEGRAL
TO YOUR
SUCCESS**

**N-SEA PEOPLE
SURVEY
CAPABILITIES**

DELIVERING SUBSEA
PEOPLE / VESSELS / EQUIPMENT

N-SEA: SURVEY CAPABILITIES



N-Sea is an independent subsea contractor operating within the international oil and gas, cable and renewable energy industries.

With over 50 years' experience of subsea operations, we employ a skilled, motivated and valued workforce which strives to achieve complete customer satisfaction by providing professional, cost-effective and high-quality services. Health, safety and environmental considerations are always given top priority.

The capabilities of our survey business unit include construction and installation support, pipeline and cable inspection, hydrographic/geophysical survey and geotechnical services as well as the necessary in-house processing, analysis and reporting.

Our survey vessel is the Noordhoek Pathfinder, which was purpose built for N-Sea and delivered in early 2010. Managed and operated by N-Sea, the Noordhoek Pathfinder is a DP11 survey/ROV support vessel with accommodation for forty people. She is equipped as standard with a 25 tonne offshore crane, single and multibeam echosounders and towed sidescan sonar/sub bottom profiler. This survey spread can be supplemented by ROTV-mounted sidescan sonars and multibeam echosounders, geotechnical equipment and ROVs as required. N-Sea operates worldwide, with a focus on northwest Europe and the Middle East.

GEOTECHNICAL SURVEY

N-Sea can offer cost-effective geotechnical data acquisition using seabed sampling and in-situ seabed testing. Our geotechnical survey services include:

- Resistivity profiling
- Cone Penetrometer Testing (CPT)
- Sediment sampling
- Laboratory testing

CONSTRUCTION AND INSTALLATION SUPPORT

N-Sea can provide a wide range of construction and installation support services from any vessel, rig or platform through our modular and portable survey systems and vessels. Our construction and installation support services include:

- Pre-installation surveys
- Surface positioning
- Subsea positioning
- ROV, construction and intervention, dredging, pipe-lay and touchdown monitoring trenching support for pipeline and cable as-built surveys.

PIPELINE AND CABLE INSPECTION

Annual pipeline and cable inspection campaigns in the North Sea and Irish Sea represent a major part of N-Sea's Survey business.

These inspections are typically performed with ROTV-mounted sidescan sonars and multibeam echosounders, combined with ROV for visual inspections, seabed profiling and Cathodic Protection (CP) measurements. Our pipeline and cable inspection services include the identification and reporting of pipeline exposures, freespans, debris, intervention, damage and seabed conditions. Our inspection expertise extends to many specialist areas including upheaval buckling and trench depth of cover measurements. Standard or tailored stabilisation and remediation services can be offered immediately.

HYDROGRAPHIC AND GEOPHYSICAL SURVEY

N-Sea offers an extensive range of hydrographic and geophysical survey and mapping services to the market.

Our surveys and assessments of the seabed and shallow geology are performed effectively and cost efficiently using vessel-mounted equipment and/or by deploying ROV or towed fish. Our hydrographic and geophysical survey services include:

- Route survey
- Analogue and digital site surveys
- Bathymetric survey
- Pre-installation survey
- Dredging support
- Wreck location / survey

INTEGRATED PROJECTS

Our survey services, specialised equipment and expert project teams are available to undertake integrated projects encompassing landfalls, inshore, nearshore and offshore operations on a world-wide basis.

As a client, you will benefit from one subcontract, consistent and combined reports and a single point of contact covering the various applicable areas.

PROCESSING, ANALYSIS AND REPORTING

Processing, interpretation and reporting is initially undertaken offshore and completed in-house from our office in the Netherlands.

The Data Centre can deliver digital video files, charts and written reports. Our certified and evolving quality management system ensures the highest level of quality assurance and our data storage systems ensure data integrity and security.



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*The specifications are believed to be correct and subject to revision without prior notice.
Revised January 2020.*