



PROJECT SHEET

N-Sea is an integrated total subsea solutions provider in Survey, IRM & Construction, Subsea Cable Repair & Installation, and UXO ID & Disposal.

We deliver total solutions for subsea infrastructures and assets that meet the needs of our clients and the international oil & gas, and renewable industries, considering a safe environment.

We want to create a sustainable business and increase our profitability through solid project management and full client awareness.

To realise this ambition we develop our organisation to the level of best in class being fully synchronised with our ambition and strategy by contributing to the following key success factors constantly:

- Qualified and engaged people
- Long term client relationships
- Strategic partnerships
- Innovative solutions
- Safety and quality 100%
- Visible presence
- Full control over marine assets

Safety, Health, Environment, Quality (SHEQ)

Our SHEQ Policy aims to ensure alignment to the N-Sea mission, vision and strategy, where 'first time right' means ensuring that harm is not inflicted upon its employees, contractors, service providers, or the environment, N-Sea's assets, as well as members of the public affected by its operations, infrastructure and all operational activities within our scope of work.

N-Sea management and all employees are committed to create a physical, social and psychological safe working environment. We ensure the well-being and protection

of human life, environmental duty of care, protection of assets and customer satisfaction.

N-Sea has integrated safety, security, health, environment and quality requirements into all our activities so that decisions made ensure the consideration of economic development, environmental quality, and social equity to continually improve performance and achieve stakeholder requirements.

"We genuinely care. We avoid harm to people and the environment while providing quality services to our customers."

To achieve our mission statement, we have established 4 core values that guides all employees in building their personal roles and developing our organisational culture.

We are driven to perform in accordance with the industry best practices and meet the requirements of ISO 9001 (Quality Management), ISO 14001 (Environmental Management) and ISO 45001 (Occupational Health & Safety Management) for which we are certified.

A safe working environment is vitally important to N-Sea. The safety awareness and actions of our employees play a crucial role in ensuring occupational, social and psychological safety within our organisational culture. This is reflected by our Level 3 Safety Culture Ladder certification.

Nordlicht II Pre-construction survey

Geophysical UXO and 2DUHR Seismic survey

Client	Vattenfall
Location	North Sea, German EEZ
Period	April to June 2024
Assets	Geo Ranger and Geo Focus
Extra	Simultaneous operation of Dual (5m) MAGsense, SSS, SBP & MBES

Project description

The Nordlicht II site is situated in the German EEZ and is part of the greater Spatial marine plan laid out for offshore wind developments. The site is located approximately 90 km off the north German coast. The deep-sea island Helgoland is located about 125km east of the area.

The site currently comprises a layout designed to accommodate ~ 630 MW. The total surface area of the site (including maintenance and safety zones) is approx. 44 km² with water depths ranging from 37m to 39m LAT.

N-Sea Offshore was awarded the contract to perform two packages of work:

- Geophysical survey consisting of 2D Seismic survey to Identify the Geological structures within the WTG area's and detect sub-sea Geohazards
- Pre-Construction UXO survey consisting of:
 - Bathymetric survey
 - Side Scan Sonar survey
 - Sub Bottom Profiling
 - Dual frame, vertical magnetometer survey
 - Ground truthing by Grab sampling

The objective was to obtain accurate bathymetry, locate all obstructions and identify other seabed factors which may affect the installation of the wind turbines, offshore substation, subsea cables and any other associated equipment. To establish the distribution and magnitude of ferrous UXO threats on the sailed survey lines and validate existing, and possibly identify any new maritime archaeological features.

Nordlicht II Pre-construction survey

Geophysical UXO and 2DUHR Seismic survey



A



B



C



D

A Geo Ranger **B** Geo Focus **C** MagSense system **D** Sampling Day grab (right) and min-Hamon grab

**WE LISTEN
THEN DELIVER**

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