FUGRO DECOMMISSIONING SERVICES

At the end of the life of a development, Fugro has an important role to play in the planning, removal and disposal of assets and infrastructure. Thereafter, we can support with planning for redevelopment and future use. Our survey, monitoring and consultancy services provide insight and guidance, whilst our vessels, equipment and technicians support the entire decommissioning process.

DECOMMISSIONING EXPERTISE

Fugro provides decommissioning support to the oil and gas, sustainable energy, and building and infrastructure sectors. From abandonment strategies, to the removal of infrastructure, site restoration and long-term monitoring, our expertise, experience and resources combine to help optimise all phases of decommissioning.

We supply data and services that enhance the safety and efficiency of operations, and support the regulatory requirements of decommissioning activities.

BENEFITS OF WORKING WITH FUGRO

Fugro works closely with clients and draws on extensive international experience to identify and advise on tenders and implementation planning for each decommissioning project.

We provide integrated project management, marine survey, subsea inspection, geo-environmental investigations, metocean and positioning services, using state-of-the-art technology and dedicated, highly trained personnel. All Fugro projects are planned and executed with an uncompromising focus on safety, efficiency and reliability.

Positioning of a heavy lift rig within 1 m tolerance.

Subsea laser scanning of seabed assets.
PREPARATORY INVESTIGATIONS
We provide detailed assessments of existing site characteristics, combining acquired data with known operating envelopes to plan and execute decommissioning activities safely and cost-effectively.

- Preparatory works for consent and regulatory approval
- Desk studies, survey scoping and environmental impact assessments
- Surveys of existing assets and the surrounding seabed
- Geohazard assessments and geotechnical consultancy for seabed and subsea infrastructure
- Metocean studies including weather downtime studies and modelling of wind, waves and currents
- Environmental baseline surveys, habitat assessments and cuttings pile characterisation
- Laboratories for contaminant and biological analysis of soils and drill cutting samples
- Engineering simulation and planning tools
- Onshore geo-environmental sampling and investigations

DECOMMISSIONING AND REMOVAL
With our own fleet of vessels, specialist equipment, trained personnel and industry-leading technology, we are equipped to tackle the most challenging and environmentally-sensitive activities.

- Well data review, analysis and reporting
- Work-class and observation ROVs with dedicated vessels and crews
- Inspection, repair and maintenance activities, preclearance, cutting and removing subsea infrastructure support
- Visualisation and mapping tools to prepare cutting plans and track operations in real time
- Jack-up site assessment for heavy lifting
- Positioning services for structures and vessels
- Monitoring of structures during abandonment, heavy lifting and towing
- Monitoring of oceanographic and meteorologic parameters
- Operational weather forecasting
- Supply and operational support of tooling for debris removal, cutting, grinding and clamping

CONTINUING LIABILITY
We engage in the on-going monitoring of decommissioned sites for regulatory compliance and integrity assessment.

- Integrity management – periodic inspection, maintenance and stabilisation of all remaining subsea and seabed infrastructure
- Post-decommissioning and monitoring environmental surveys
- Cuttings pile monitoring
- Survey vessels and crews for ongoing geotechnical and geophysical surveys, as required
- Long-term monitoring of ground water contamination
CONSULTANCY SUPPORT
At every stage of the decommissioning process, our skilled and experienced consultants can support the planning and de-risking of activities.

Our specialist environmental consultants provide insight on the regulatory process and ongoing obligations, while our metocean specialists can identify the best weather windows to help plan efficient operations. Our geoconsultants combine geotechnical engineering, geophysics and geological expertise to predict how soils may respond to activities required as part of the decommissioning process.

SURVEY AND MONITORING
We offer a comprehensive range of survey services to support every stage of the decommissioning process, from project planning to ongoing monitoring requirements.

Our services include:
- Meteorology and oceanography
- Weather forecasting
- Offshore structural monitoring
- Marine environmental services
- Geophysical and hydrographic services
- Construction survey support
- Geospatial and GIS solutions
- Subsea services
- Geotechnical investigations

LABORATORIES
Fugro provides accredited geotechnical and environmental testing laboratories. We use state-of-the-art technology to perform analysis to local and internationally accepted standards.

Our soil testing laboratories provide crucial data to help de-risk decommissioning projects with soil sensitivities.

Our environmental laboratories specialise in benthic taxonomy, sediment characterisation, and analysis of sediment and water samples for hydrocarbons to support pre- and post-decommissioning environmental surveys and cuttings pile characterisation.

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VESSEL SOLUTIONS

Marine developments can be located in remote and, at times, extreme environments, where suitable vessels are required to work in the area. Our vessels are designed to meet the demands of deepwater and coastal environments to support the decommissioning process.

Fugro operates a fleet of specialised survey, subsea and geotechnical vessels equipped with state-of-the-art equipment. These vessels also provide versatile platforms that can undertake complementary environmental and geotechnical surveys.

Fugro provides world-class efficient vessels, which are:

■ Crewed by dedicated specialists
■ Purpose-built for market requirements
■ Equipped with state-of-the-art systems
■ Built to a high specification
■ Compliant with HSE requirements

SURVEY

Fugro vessels regularly undertake geophysical and hydrographic surveys, typically mobilised with a suite of high resolution geophysical and hydrographic equipment.

SUBSEA

Fugro has a fleet of dynamically positioned vessels supported by a fleet of ROVs ideally suited for decommissioning projects. Our vessels provide an ideal platform for construction support, inspection, repair and maintenance works. In addition to this, we have a range of multipurpose vessels able to support a range of both diver and diverless operations.

GEOTECHNICAL

Fugro operates one of the world’s largest fleets of geotechnical vessels, providing tailored solutions across a variety of water depths.