Offshore oil and gas development projects face challenges as vast as the areas of the work in which they operate. From the technical challenges of ultra-deepwater, the Arctic and other harsh and demanding environments to the myriad of international health, safety and environmental (HSE) standards and regulations, project owners must navigate an increasingly complex path from project concept to first oil. Internal decision gates require diligence at each step to minimize costs, risks and missed milestones.

We understand these challenges and work each day through our offices around the world assisting owners and operators to chart a course to achieve their goals. From fields in the Gulf of Mexico, West Africa and the North Sea to major shipyards in the Middle East, throughout Asia and around the globe, our engineers, surveyors and technical specialists are on-site working to keep your project progressing.

Whether you have a newbuild project, major modification or conversion, we can help you manage risk, maintain safety and optimize asset integrity and performance. Contact us today to find out more about our Asset Integrity Management services* and to discuss how we can help support your offshore project.

* Classification-related services provided by ABS.
Reliable Advice

With independent technical advice and quality project management, ABS Group can provide informed assistance at each stage of the asset’s life cycle.

Concept & FEED

The framework for a successful oil & gas project is established long before the first piece of steel is cut. At the beginning of your project, ABS Group can provide technical support to help refine key project goals, set milestones and identify specifications to align with applicable regulatory requirements and engineering standards.

At the same time, we can analyze critical project risks so that they can be addressed during subsequent design phases. Throughout these critical front-end phases, we can help to establish a streamlined process to achieve overall project objectives, certification and contract compliance.

Key services during concept and front-end engineering design (FEED) include:

- Financial and technical due diligence
- Concept risk assessment
- Qualitative risk assessment
- Technical and engineering staff augmentation
- Approval in Principle (AIP)
- Vendor qualification
- Safety and environmental management system development
Design & Construction

When a project moves into detailed design and construction, ABS Group continues to provide vital independent engineering verification and additional hazard reviews and assessments. ABS Group assists with HSE and safety case development, project quality management and third-party source inspection to confirm that construction complies with pertinent specifications and standards.

Key services during design and construction include:

- Engineering analysis and verification
- Design analysis and plan review
- Enterprise asset management
- Risk assessment including HAZID, HAZOP, QRA, FMECA and LOPA
- HSE, safety case and major accident risk avoidance
- Supply chain management
- Reliability and maintenance planning including CMMS support
- Maintenance management system integration
- Spares management
- Fire, blast and seismic modeling
- Source inspection
- Project quality management
- Project supervision
- Surveys during construction
- Type approval for manufactured products

Optimized Integrity

With proven risk methods and reliable inspection services, ABS Group can deliver turnkey support for long-term asset integrity.
Commissioning, Operations & Decommissioning

Oil & gas owners and operators strive to maximize efficiencies and minimize operation costs without increasing their exposure to risk. From drilling to commissioning and production, ABS Group supports safe and reliable operations throughout the service life of an asset with a range of technology-based solutions.

When assets approach the end of their service life, ABS Group helps to assess alternatives for decommissioning or life extension. These efforts can involve a range of risk, technical hazard, economic and environmental assessments to determine the path that best meets goals and objectives.

Key services during operations and decommissioning include:

- Drilling and control system services
- HSE support and safety studies
- Training and competency assurance programs
- Risk-based inspection
- Asset integrity management programs
- Corrosion management programs and monitoring
- Surveys after construction
- Statutory inspections
- Energy and environmental management
- Casualty response services
- Compliance audits
ABS Group's global footprint allows us to respond to client requests with the right people in the right place at the right time.