

➤ Subsea Pipelines

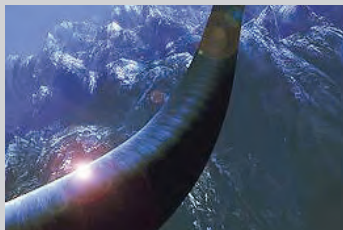
Peritus' capability in Subsea Pipelines is founded on leading industry personnel, with experience to develop innovative solutions to the many challenges facing pipeline systems as they move into ever deeper waters.

Our personnel have experience in the design and construction of all types of subsea pipeline systems from conventional rigid and flexible pipeline systems in shallow and medium water depths to design solutions for the deep and ultra deep water (over 3400m) and ultra shallow. We have experience of reeled, S-Lay, J-Lay, Towed Pipe-in-Pipe and bundle installed systems.

Long distance and deepwater pipelines require careful planning and good understanding of limit state design to ensure optimum design and minimised material costs. At Peritus, we understand the capabilities of the pipe mills and installation vessels which enables our Concept and FEED designs to establish realistic project schedules and highlight critical activities.

Capabilities include:


- Through life cycle engineering – appraise, select, define, execute, operation support, decommission
- Bundle Flowlines Systems



- Arctic Engineering
- Long distance transmission pipelines
- HPHT and Pipe-in-Pipe flowlines
- Remote systems connections and tie-in spools
- Upheaval and lateral buckling, soil-pipe interaction and advanced mechanics
- Pipeline routing, bottom roughness, pre-lay and post-lay intervention design
- Advanced dynamic stability engineering
- Component design using advanced mechanics solutions, such as J-lay collar, buckle arrestor, end and intermediate bulkhead design
- Shore approach, stability, cathodic protection and crossing design
- Fatigue evaluation and ECA assessments
- J-lay, S-lay, Reel-lay and bundle installation analysis
- Material selection, corrosion and corrosion management
- Production of Tender Documents / EPIC packages for procurement, fabrication, construction / installation, testing and commissioning of subsea pipelines
- Production of operating philosophies
- Procurement / manufacturing / fabrication management
- Construction management including offshore installation, start up and commissioning
- Development and implementation of inspection, maintenance and repair strategies
- Interface management

Experience:

Peritus' senior technical team consists of industry experts with extensive international knowledge and expertise in difficult or deepwater environments. Members of this team have worked on some of the most innovative projects of their time, in some of the world's most challenging offshore environments.



experts in difficult and deepwater environments

The Peritus mission is to provide high end system engineering services to the offshore oil and gas industry with a particular focus on deepwater and difficult environments for:

- Subsea Systems
- **Subsea Pipelines**
- Risers
- Floating Structures
- Flow Assurance
- Specialist Engineering
- Field Development

