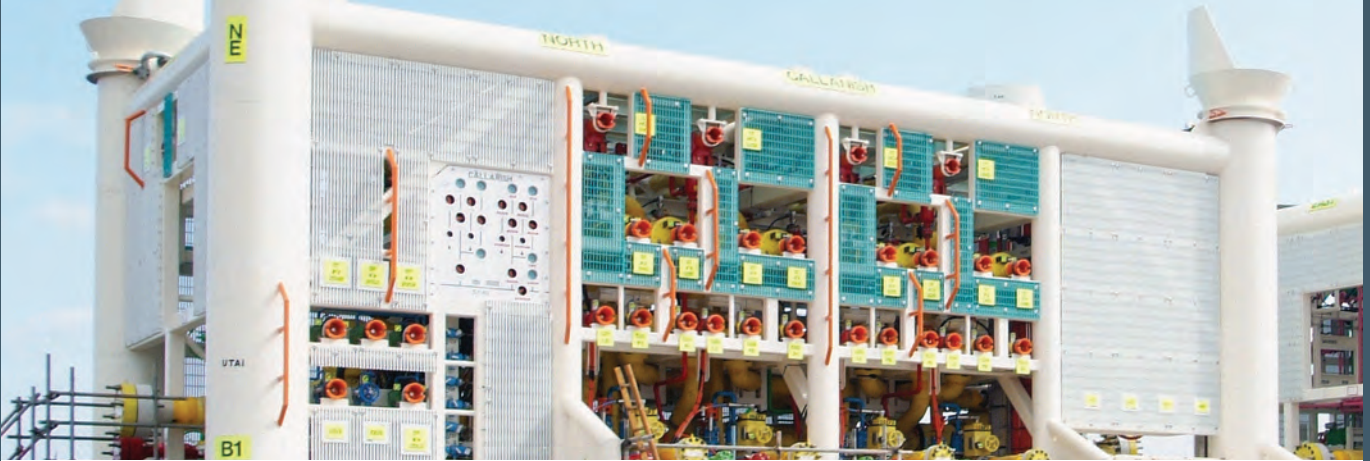


Subsea & Pipelines



ClerkMaxwell is experienced in both brownfield and new field developments, from initial concept design to then managing the project processes through to commissioning and handover.

Our knowledge and experience cover all types of field development utilising subsea facilities. This ranges from single well satellite tie-backs to fixed or floating hosts to multi-well green field development with fluid transfer to platform or shore.

ClerkMaxwell engineers and project managers come from a wide cross section of the subsea and pipelines industry and have gained experience with oil companies, design firms, equipment vendors, fabrication specialists and installation contractors.

This recipe allows for a more holistic approach at the outset and provides added assurance of achieving successful project outcomes.

ClerkMaxwell's capabilities include:

- Project management (integrated with client or standalone)
- Route selection including environmental, sociological and archaeological effects
- Hydraulic analysis, flow assurance & transient analysis
- Onshore & offshore pipeline mechanical design
- Preparation of materials, welding & construction specifications
- Preparation of ITTs, route surveys and major EPC contracts
- Cost estimation
- EPC contract evaluation
- Design review and audit
- Material selection & CP design
- Commissioning, maintenance and operating philosophies
- Construction supervision and logistics management
- Field architecture and system configuration, including:
 - riser analysis & design
 - seabed structures
 - controls systems
 - christmas trees & completions
 - commissioning and onshore/offshore support