

COTEC with multi-discipline engineering is capable of performing field development FEED studies to deliver the fit for purpose solutions for offshore oil & gas field development in compliance with class and Industry Standards. We deliver high standard products in an efficient manner.

## SCOPE OF SERVICES

- ❖ Prepare Design Basis
- ❖ Develop Field Development Concept
- ❖ Size Floater
- ❖ Verification of Engineering Feasibility
- ❖ Estimate Development Costs
- ❖ Estimate Schedule

## SOFTWARE TOOLS

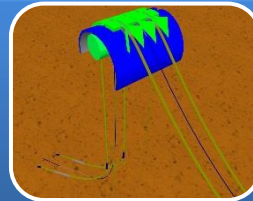
- ❖ Orcaflex
- ❖ Ansys
- ❖ Abaqus
- ❖ Mathcad
- ❖ Wamit
- ❖ Shear 7
- ❖ SACS

## REPRESENTATIVE PROJECTS



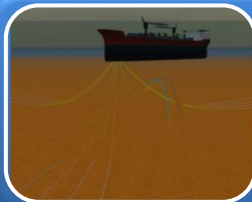
### HYSY 981 Drilling Riser

- Riser Operating Limits
- Installation Analysis
- Hang-off Analysis
- Drift-off
- Weak Point Assessment



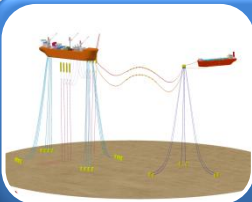
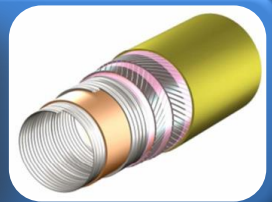
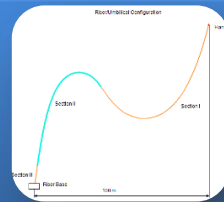
### PY 4-2 Riser Relocation

- Mid Water Arch Configuration
- Riser and Cable Configuration
- Riser and Cable Dynamic Analysis
- Interference Check



### EP24-2 FPSO Basic Design

- Evaluate the Riser and Cable Options
- Derive Flexible Riser and Cable Configurations
- Riser Cross Section Design
- Conduct Riser Dynamic Analysis
- Riser Installation Analysis



### West of Africa Deep Water Oil Offloading System

- Free Standing Hybrid Riser (FSHRs) Configuration Design
- FSHR Dynamic Analysis
- Oil Offloading Line Design
- FSHR Riser Upper Connector Design
- FSHR Riser Lower Connector Design

