

Subsea and Pipeline Engineering Dept provides professional engineering services of pipeline PLET/PLEM designs from concept to detailed engineering for offshore oil & gas field development in compliance with class and Industry Standards, such as ISO, DNV, ABS, API, ASME, ANSI, etc. COTEC delivers high standard products in an efficient manner.

SCOPE OF SERVICES

- ❖ PLET/PLEM concept
- ❖ Mudmat design
- ❖ Soil mechanics
- ❖ Structural design and analysis
- ❖ Transportation design
- ❖ Installation analysis
- ❖ Dropped object
- ❖ Hazid/Hazop study

SOFTWARE TOOLS

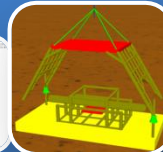
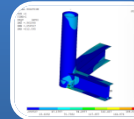
- ❖ Orcaflex
- ❖ Ansys
- ❖ SACS
- ❖ Abaqus
- ❖ Autopipe
- ❖ Mathcad
- ❖ AutoCad
- ❖ Inventor

REPRESENTATIVE PROJECTS

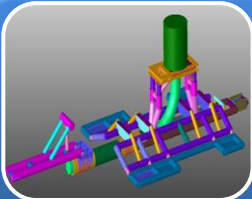
Liwan 3-1 30" SSIV PLET Detailed Design



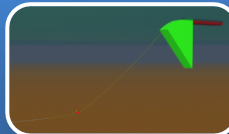
- Dynamic installation analysis
- Structural integrity analysis
- Installation & Recovery & Transportation
- ROV accessibility
- Corrosion control
- Piping & flying lead connection



Liuhua 4-1 PLET Design and Installation Analysis



- Develop PLET Conceptual Design
- Pipe and PLET installation model
- Conduct installation simulation
- Conduct PLET structural analysis during installation
- Conduct pipe and PLET fatigue analysis



Panyu 35-1/35-2 PLET Installation



- Develop installation procedures
- Lift installation of PLET/PLEM
- Structural analysis during installation
- Inline installation of manifolds
- Installation analysis

