

Installation Dept provides professional installation & transportation analysis and develops installation procedures & methods for offshore platforms, moorings, piles, subsea structures, pipelines, risers, etc. in compliance with class and Industry Standards, as well as sound engineering principles and industry best practices. COTEC delivers high standard installation & transportation solutions in a cost-effective manner.

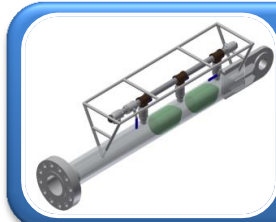
### SCOPE OF SERVICES

- ❖ Offshore platform transportation & installation
- ❖ Jacket launching and upending
- ❖ Jacket topside float-over
- ❖ Pile installation
- ❖ Mooring system
- ❖ Flexible riser and Steel Catenary Riser (SCR)
- ❖ Subsea structures (PLET, PLEM, CM, X-trees, jumpers, etc.)
- ❖ Pipelay w/ & w/o in-line structures

### SOFTWARE TOOLS

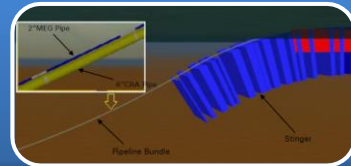
- ❖ Abaqus
- ❖ Ansys
- ❖ AutoPipe
- ❖ GRLWEAP
- ❖ Orcaflex
- ❖ Moses
- ❖ Mathcad
- ❖ AutoCad
- ❖ Inventor

### REPRESENTATIVE PROJECTS



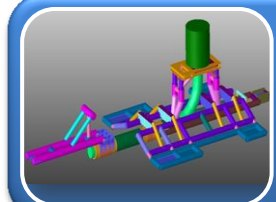
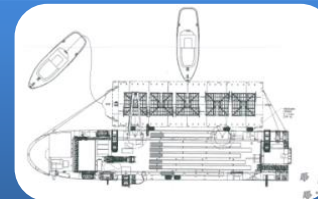
#### PBHY Piggyback Pipeline Installation Design

- Pipelay Analysis
- Installation Procedure Development
- Initiation & Termination Pullhead Design
- Abandonment Pullhead Design
- Anti-Rotation Device Design
- On-Vessel Rotation Management Clamp Design



#### Panyu 35-1/2 PLEMs & CM Installation

- Installation Procedure Development
- Lowering Analysis
- Rigging Design
- Pipelay Analysis with In-Line Structure



#### Liuhua 4-1 In-Line PLET Installation Analysis

- Installation Analysis of In-Line PLET
- PLET Structural Analysis During Installation
- Fatigue Anlysis of Pipeline and PLET Structure

