

Offshore topside installations can be executed by lowering fully-integrated topside unit onto pre-installed jacket or hull structure by means of float-over operations. COTEC provides professional engineering services of floatover installation from operation procedures to detailed engineering analysis.

SCOPE OF SERVICES

- ❖ Jacket or hull loadout design
- ❖ Jacket or hull transportation design
- ❖ Jacket launch or lifting design
- ❖ Topside loadout design
- ❖ Topside transportation design
- ❖ Topside floatover engineering, including four different phases, standby, entry, mating, and exit
- ❖ Mooring system design for floatover
- ❖ Barge capability analysis, including barge strength check and ballast plan

SOFTWARE TOOLS

- ❖ MOSES
- ❖ WAMIT
- ❖ ANSYS
- ❖ Orcaflex
- ❖ SACS
- ❖ AutoCad
- ❖ Mathcad

REPRESENTATIVE PROJECTS



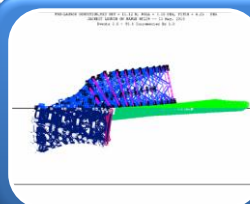
Liwan 3-1 Jacket Deck (>30,000t) Floatover Design

- Floatover barge hydrodynamic analysis
- Standby mooring design and analysis
- Floatover model test specifications
- Model test supervision
- Model test calibration
- Deck support frame and seafastening design



QHD 32-6 CEPI&CEPJ Basis&Detail Design

- Topside transportation design
- Leg maing system design
- Deck mating system design
- Fender system design
- Mooring system design
- Barge ballast plan for different phase



LF13-2 DPP Jacket Installation Design

- Jacket transportation
- Structural strength analysis during launching
- Hydrodynamic analysis of derrick barge
- Jacket upending analysis
- Pile derivability analysis
- Deck mating and fender system design

