



Suction Piles and Suction Pile Clusters for



Subsea Structure Foundations

SPT Offshore



Suction Piles and Suction Pile Clusters for Subsea Structure Foundations

If you're looking at a quick, efficient and low cost foundation for subsea structures, founding these structures on SPT Offshore's suction piles or Suction Pile Cluster (SPC) is the solution.

Product characteristics

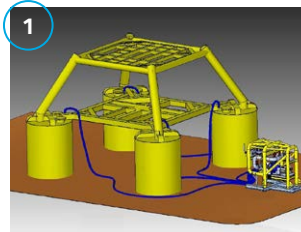
- Integrated foundation of 3 or 4 suction piles in the subsea structure
- Or: Suction Pile Cluster (SPC) with 3 bundled suction piles and subsea connector
- Suction pile installation to maximum of 3,000m water depth

Benefits of suction piles for subsea structure foundations

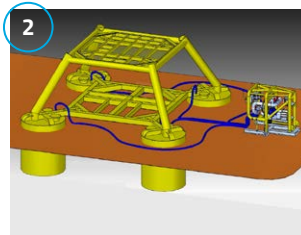
- **Proven** technology with numerous suction pile founded structures installed worldwide
- **Very swift** and **vibration free** offshore installation
- **Fabrication costs** are **reduced significantly**, since no pile sleeves, -catchers, -centralizers and mud mats are required
- **No pile drive-**, leveling- and grout **spread and operation required**
- **Leveling** of the structure **< 0.25 degrees** by selective suction
- **Easy decommissioning** by reversed installation
- **Engineering and installation by one party**, hence SPT Offshore takes over installation and in-situ **responsibility**

Transportation and installation

Suction Pile Foundation



Lower structure and suction pump, connected with hoses or hardpiping, to seabed

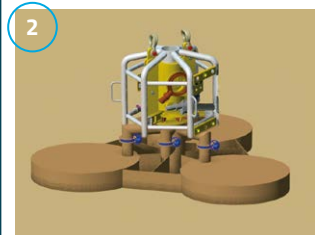


Suction operation to target penetration and levelness using integrated manifold

Suction Pile Cluster (SPC)



Lift and lower SPC to seabed using the integrated suction pump lift frame



Suction operation to target penetration and levelness using integrated manifold

SPT Offshore track record for subsea structure foundations



PetroCanada de Ruyter Development



Amerada Hess Ceiba