



# Saipem

**Project:**

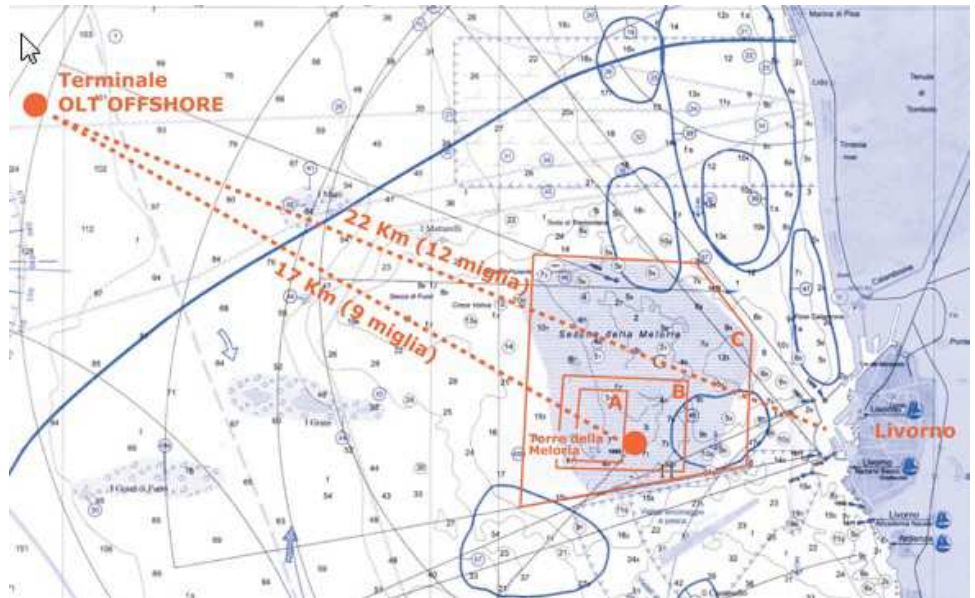
Floating terminal of regasification "FSRU Tuscany"

**Period:** July 2008

**THE PROJECT**

The regasification plant Offshore Tuscany, as for the project of OLT Offshore LNG Tuscany, consists of a LNG carrier converted into a floating terminal, permanently anchored by 6 anchors approximately 22 kilometres off the coast between Livorno and Pisa.

Liquid natural gas is carried on LNG ships and discharged in FSRU Toscana terminal, regasified and unloaded through a pipe of about 36.5 km length, 29.5 kilometres are in sea.



The plant, that will have a regasification capacity of 3.75 billion cubic meters per year at operating speed, started its first commercial activities in 20 December 2013.

**LAB WORK:**

The task provided for the geotechnical characterization of soils in the area expected for the FSRU terminal anchoring, situated at approx. 22 km off Livorno.

The following investigations were carried out:

- Two bore hole and two piezocono tests (CPTU) at the depth of 20 meters from the sea bottom with water head of 110 meters
- Geotechnical laboratory tests

The investigations, that were very complicated due to environmental and logistic conditions, were executed by using new technologies: the drilling probe was equipped with a system of compensation of wave movement, in the section between the work surface and the sea bottom a particular pipe guide was used, while for CPTU tests the memocone connected to a dedicated wire-line system was utilized.



Laboratorio autorizzato ai sensi art. 59 DPR 380/01 dal 2004  
info@vicenzetto.it - www.vicenzetto.it